

(A) $\varepsilon + \zeta \chi^v = z^v$ | (B) $\chi^v = \frac{z^v - \varepsilon}{\zeta}$ | (Γ) $\chi = \frac{\overline{z^v - \varepsilon}^{\frac{1}{v}}}{\zeta^{\frac{1}{v}}}$ | (Δ) $\chi^{\pi+1} = \frac{\overline{z^v - \varepsilon}^{\pi+1}}{\zeta^{\frac{\pi+1}{v}}}$

(E) $\chi^\pi \delta \chi = \frac{\overline{11+1} \cdot z^{v-1} \delta z}{v \cdot \zeta^{\frac{\pi+1}{v}} \cdot \overline{z^v - \varepsilon}^{\frac{\pi+1}{v}-1}}$ | (Z) $\alpha \chi^\pi \delta \chi \cdot \overline{\varepsilon + \zeta \chi^v}^\mu = \frac{\alpha \cdot \pi+1}{\zeta^{\frac{\pi+1}{v}}} z^{\mu+v-1} \frac{\overline{z^v - \varepsilon}^{\pi+1-1}}{\delta z}$

(H) $\chi \delta y + y \delta \chi$ | (Θ) χy | (I) $\alpha \chi^2 \delta \chi + \frac{\beta \delta \chi}{\alpha + \chi}$ | (K) $\frac{\alpha}{5} \chi^3 + \beta \lambda \overline{\alpha + \chi}$ | (Λ) $\alpha \chi^v \delta \chi + \frac{\alpha^2 \delta \chi}{\alpha^2 + \chi^2}$

(M) $\frac{\alpha}{v+1} \chi^{v+1} + \frac{0 \alpha^2 \delta \chi}{\alpha^2 + \chi^2}$ | (N) $\text{HI} = - \frac{\chi \delta \chi}{\sqrt{\alpha^2 - \chi^2}}$ | (Ξ) $\overline{\text{HZ}}^2 = \delta \chi^2 + \frac{\chi^2 \delta \chi^2}{\alpha^2 - \chi^2}$ | (O) $\text{HZ} = \frac{\alpha \delta \chi}{\sqrt{\alpha^2 - \chi^2}}$

(Π) $\text{HΓΔZ} = \delta \chi \sqrt{\alpha^2 - \chi^2}$ | (P) $\text{KZH} = \frac{1}{2} \alpha \cdot \frac{\alpha \delta \chi}{\sqrt{\alpha^2 - \chi^2}} = \frac{\alpha^2 \delta \chi}{2 \sqrt{\alpha^2 - \chi^2}}$ | (Σ) $\text{HZ} = \frac{\alpha \delta \chi}{\sqrt{2\alpha\chi - \chi^2}}$ | (Τ) $\text{HΓΔZ} = \delta \chi \sqrt{2\alpha\chi - \chi^2}$

(Υ) $\text{KZH} = \frac{\alpha^2 \delta \chi}{2 \sqrt{2\alpha\chi - \chi^2}}$ | (Φ) $\text{HZ} = \frac{\alpha^3 \delta \chi}{\alpha^2 + \chi^2}$ | (X) $\text{HΓΔZ} = \frac{\alpha^3 \chi^2 \delta \chi}{\alpha^2 + \chi^2 \frac{3}{2}}$ | (Ψ) $\text{KHZ} = \frac{\alpha^3 \delta \chi}{2 \cdot \alpha^2 + \chi^2}$

(Ω) $\delta \chi \sqrt{\beta \chi^2 - \beta \alpha^2} = \Gamma \text{IMB}$ | (α) $\Gamma \text{I} = \delta \chi \sqrt{\frac{\beta + 2\alpha \cdot \chi^2 - 2\alpha^3}{2\alpha \cdot \chi^2 - \alpha^2}}$ | (β) $\text{KIP} = \frac{\chi \cdot \chi \delta \chi - \frac{1}{2} \delta \chi \sqrt{\chi^2 - \alpha^2}}{2 \sqrt{\chi^2 - \alpha^2}}$

(γ) $\text{KIP} = \frac{\alpha^2 \delta \chi}{2 \sqrt{\chi^2 - \alpha^2}}$ | (δ) $\frac{0 \alpha^2 \delta \chi}{2 \sqrt{\chi^2 - \alpha^2}} = \frac{1}{2} \frac{\alpha^2 \lambda \chi - \sqrt{\chi^2 - \alpha^2}}{2}$

(δ) $y \delta \chi = \chi \delta \chi - \chi \delta y$ | (ε) $y \delta \chi + \chi \delta y = \chi \delta \chi$ | (ς) $y \chi = \frac{1}{2} \chi^2$

(η) $y \delta \chi - \chi \delta y = y^3 \delta y + y^2 \delta y$ | (θ) $\frac{y \delta \chi - \chi \delta y}{y^2} = y \delta y + \delta y$ | (ι) $\frac{\chi}{y} = \frac{1}{2} y^2 + y$

(κ) $-y^v \delta y = \mu y \delta \chi + \chi \delta y$ | (λ) $y^{v+\frac{1}{\mu}-1} \delta y = \mu y^{\frac{1}{\mu}} \delta \chi + \chi y^{\frac{1}{\mu}-1} \delta y$

(μ) $\frac{\mu}{\mu v + 1} y^{\frac{\mu v + 1}{\mu}} = \mu \chi y^{\frac{1}{\mu}}$

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$$(A) x^4 dy^2 + 2x^3 dx dy = a^4 dx^2 - x^2 y^2 dx^2 \quad | \quad (B) x^2 dy^2 + 2x dx dy + y^2 dx^2 = \frac{a^4 dx^2}{x^2}$$

$$(\Gamma) x dy + y dx = \frac{a^2 dx}{x} \quad | \quad (\Delta) yx = a^2 \lambda x \quad | \quad (E) x dy^2 + 2y dy dx + \frac{y^2 dx^2}{x} = a^2 x dx^2$$

$$(Z) x^2 dy^2 + 2xy dy dx + y^2 dx^2 = a^2 x^2 dx^2 \quad | \quad (H) x dy + y dx = a x dx$$

$$(\Theta) xy = \frac{1}{2} a x^2 \quad | \quad (I) \frac{dx + dy}{x+y} \quad | \quad (K) x+y=z \quad | \quad (\Lambda) dx + dy = dz$$

$$(M) \frac{dx + dy}{x+y} = \frac{dz}{z} \quad | \quad (N) \frac{dx + dy}{x+y} = \lambda z = \lambda \overline{x+y}$$

$$(\Xi) x^2 dy = y dx + x y dx \quad | \quad (O) ay = xz \quad | \quad (\Pi) a^2 y^2 + x^2 z^2$$

$$(P) dy = \frac{x dz + z dx}{a} \quad (\Sigma) \frac{x^3 dz + x^2 z dx}{a^2} = \frac{x^2 z^2 dx}{a^2} + \frac{x^2 z dx}{a}$$

$$(T) a x^3 dz = x^2 z^2 dz \quad | \quad (\Upsilon) a x dz = z^2 dx \quad | \quad (\Phi) \frac{dz}{z^2} = \frac{dx}{ax} \quad | \quad (X) \frac{-1}{z} = \frac{1}{a} \lambda x$$

$$(\Psi) \frac{-x}{ay} = \frac{1}{a} \lambda x \quad | \quad (\Omega) \frac{-x}{y} = \lambda x \quad | \quad (a) x^2 dy^2 + x y dx dy = x^2 dx^2$$

$$(\beta) a x^2 dy^2 + x^2 z dx dy = a x^2 dx^2 \quad | \quad (\gamma) a dy^2 + z dx dy = a dx^2 \quad | \quad (d) \frac{x dz}{a} = d\tau$$

$$(e) dy = \frac{a d\tau + z dx}{a} \quad | \quad (z) \frac{dy^2}{a^2} = \frac{a^2 d\tau^2 + 2az dx d\tau + z^2 dx^2}{a^2}$$

$$(η) \frac{a^2 d\tau^2 + 2az dx d\tau + z^2 dx^2}{a^2} + \frac{z^2 dx^2 + az dx d\tau}{a^2} = a dx^2$$

$$(\theta) 2z^2 dx^2 + 3az dx d\tau + a^2 d\tau^2 = a^2 dx^2 \quad | \quad (ι) d\tau = \frac{\sigma dx}{a} \quad | \quad (κ) d\tau^2 = \frac{\sigma^2 dx^2}{a^2}$$

$$(\lambda) 2z^2 dx^2 + 3\sigma z dx^2 + \sigma^2 dx^2 = a^2 dx^2 \quad | \quad (\mu) 2z^2 + 3\sigma z + \sigma^2 = a^2$$

$$(ν) 2a^2 y^2 + 3axy\sigma + x^2 \sigma^2 = a^2 x^2$$

(A) $2a^2y^2 + 3axy \cdot \frac{x dz}{dx} + x^3 \cdot \frac{x^2 dz^2}{dx^2} = a^2 x^2$

(B) $2a^2y^2 dx^2 + 3ax^2y dx \cdot dz + x^4 \cdot dz^2 = a^2 x^2 dx^2$

(Γ) $2a^2y^2 dx^2 + 3axy dx \cdot \frac{ax dy - ay dx}{x^2} + x^4 \cdot \frac{a^2 x^2 dy^2 - 2a^2 xy dy dx + a^2 y^2 dx^2}{x^4} = a^2 x^2 dx^2$

(Δ) $x^2 dy^2 + xy dx dy = x^2 dx^2$ | (E) $x = y \cdot \frac{3dx^3 - 2dy^3}{dx^2 dy + dx dy^2}$ | (Z) $x = 0 \tau dy$

(H) $dx = \tau dy$ | (Θ) $dx^2 = \tau^2 dy^2$ | (I) $dx^3 = \tau^3 dy^3$ | (K) $0 \tau dy = y \cdot \frac{3\tau^3 dy^3 - 2 dy^3}{\tau^2 dy^3 + \tau dy^3}$

(Λ) $0 \tau dy = y \cdot \frac{3\tau^3 - 2}{\tau^2 + \tau}$ | (M) $\tau dy = dy \cdot \frac{3\tau^3 - 2 + y \cdot \frac{3\tau^4 + 6\tau^3 + 4\tau + 2}{\tau^2 + \tau} \cdot d\tau}{\tau^2 + \tau}$

(N) $\frac{\tau - 3\tau^3 + 2}{\tau^2 + \tau} \cdot dy = y \cdot \frac{3\tau^4 + 6\tau^3 + 4\tau + 2}{\tau^2 + \tau^2} \cdot d\tau$

(Ξ) $\frac{dy}{y} = \frac{3\tau^4 + 6\tau^3 + 4\tau + 2}{\tau^2 + \tau \cdot \tau^2 - 2\tau^2 + 2} \cdot d\tau$ | (O) $B\Delta = \frac{y dx}{dy}$ | PZ = $y \sqrt{dx^2 + dy^2}$

(P) $\Pi\Delta = \frac{y dy}{dx}$ | (Σ) $Z\Pi = y \sqrt{dx^2 + dy^2}$ | (Τ) $Z\Psi = \sqrt{dx^2 + dy^2}$ | (Υ) $B\Gamma = \frac{y dx - x dy}{dy}$

(Φ) $\Gamma O = \frac{y dx - x dy}{dx}$ | (X) $\Delta\Phi = y dx$ | (Ψ) $Z\Pi\Sigma\Psi = \frac{\pi \sqrt{dx^2 + dy^2} + y d\tau}{2}$ | (Ω) $\frac{\pi y^2 dx}{2\eta}$

(α) $\pi dz = \delta \kappa$ | (β) $B\Delta = \sqrt{\delta \kappa^2 + \delta z^2}$ | (γ) $\Phi\Lambda = \frac{z \delta \kappa}{\sqrt{\delta \kappa^2 + \delta z^2}}$ | (δ) $B\Phi = \frac{z \delta z}{\sqrt{\delta \kappa^2 + \delta z^2}}$

(ε) $AB\Gamma = \frac{1}{2} z \delta \kappa$

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$$(A) \pi dz = \delta u \quad | \quad (B) \delta z^2 + \delta u^2 = \delta x^2 + \delta y^2 \quad | \quad (\Gamma) z^2 = x^2 + y^2 \quad | \quad (\Delta) \pi^2 \delta z = \delta u^2 \quad | \quad (E) \delta y = \frac{z \delta z - x \delta x}{y}$$

$$(Z) \delta y = \frac{z \delta z - x \delta x}{\sqrt{z^2 - x^2}} \quad | \quad (H) \delta y^2 = \frac{z^2 \delta z^2 - 2zx \delta z \delta x + x^2 \delta x^2}{z^2 - x^2}$$

$$(\Theta) \delta z^2 + \pi^2 \delta z^2 = \delta x^2 + \frac{z^2 \delta z^2 - 2zx \delta z \delta x + x^2 \delta x^2}{z^2 - x^2} \quad | \quad (I) \pi^2 \delta z^2 = \frac{z^2 \delta x^2 - 2zx \delta z \delta x + x^2 \delta z^2}{z^2 - x^2}$$

$$(K) \pi \delta z = \frac{z \delta x - x \delta z}{\sqrt{z^2 - x^2}} \quad | \quad (\Lambda) x = \frac{z \psi}{a} \quad | \quad (M) x^2 = \frac{z^2 \psi^2}{a^2} \quad | \quad (N) \delta x = \frac{z \delta \psi + \psi \delta z}{a}$$

$$(\Xi) \frac{\pi \delta z}{z} = \frac{\delta \psi}{\sqrt{a^2 - \psi^2}} \quad | \quad (O) z^2 \delta z = \frac{z \delta x - x \delta z}{\sqrt{z^2 - x^2}} \quad | \quad (\Pi) \delta z \sqrt{z^2 - x^2} = \frac{z \delta x - x \delta z}{z^2}$$

$$(P) \sqrt{z^2 - x^2} = az \quad | \quad (\Sigma) z^2 - x^2 = a^2 z^2 \quad | \quad (T) z^2 \cdot \overline{1 - a^2} = x^2 \quad | \quad (\Upsilon) z = \frac{x}{\sqrt{1 - a^2}}$$

$$(\Phi) \delta z = \frac{\delta x}{\sqrt{1 - a^2}} \quad | \quad (X) az = \frac{ax}{\sqrt{1 - a^2}} \quad | \quad (\Psi) \delta z \sqrt{z^2 - x^2} = \frac{ax \delta x}{1 - a^2}$$

$$(\Omega) \frac{ax \delta x}{1 - a^2} = \frac{z \delta x - x \delta z}{z^2} \quad | \quad (a) \frac{ax^2}{2 \cdot 1 - a^2} = \frac{x}{z} \quad | \quad (\beta) ax = \frac{2 - 2a^2}{z}$$

$$(\gamma) \frac{1}{z} : x :: a : 2 - 2a^2 \quad | \quad (\delta) z^2 = ax \quad | \quad (\epsilon) z^2 = z\psi \quad | \quad (\zeta) z = \psi$$

$$(\eta) z^2 = \psi^2 \quad | \quad (\theta) \delta z = \delta \psi \quad | \quad (\iota) \frac{\pi \delta z}{z} = \frac{\delta z}{\sqrt{a^2 - z^2}} \quad | \quad (\kappa) \pi = \frac{z}{\sqrt{a^2 - z^2}} \quad | \quad (\lambda) \frac{z \delta z}{\sqrt{a^2 - z^2}} = \delta u$$

(A) $a \pm \frac{\gamma}{\beta} \chi = \sqrt{\chi^2 + y^2}$ | (B) $z = \sqrt{\chi^2 + y^2}$ | (Γ) $z = a \pm \frac{\gamma}{\beta} \chi$ | (Δ) $z = a \pm \frac{\gamma}{\alpha\beta} z\psi$

(E) $\psi = \pm \alpha\beta \mp \frac{a^2\beta}{\gamma z}$ | (Z) $\delta\psi = \pm \frac{\beta a^2 \delta z}{\gamma z^2}$ | (H) $\psi^2 = \frac{a^2\beta^2}{\gamma^2} - \frac{2a^3\beta^2}{\gamma^2 z} + \frac{a^4\beta^2}{\gamma^2 z^2}$

(Θ) $a^2 - \psi^2 = \frac{a^2}{\gamma^2} - \frac{a^2\beta^2}{\gamma^2 z^2} + \frac{2a^3\beta^2}{\gamma^2 z} - \frac{a^4\beta^2}{\gamma^2 z^2}$ | (I) $a^2 - \psi^2 = \frac{a^2\gamma^2 - a^2\beta^2 \cdot z^2 + 2a^3\beta^2 - a^4\beta^2}{\gamma^2 z^2}$

(K) $\sqrt{a^2 - \psi^2} = \frac{1}{\gamma z} \sqrt{a^2\gamma^2 - a^2\beta^2 \cdot z^2 + 2a^3\beta^2 - a^4\beta^2}$ | (Λ) $\frac{\pi \delta z}{z} = \frac{\delta\psi}{\sqrt{a^2 - \psi^2}}$

(M) $\frac{\pi \delta z}{z} = \pm \frac{\beta a^2 \delta z}{\gamma z^2} \frac{\gamma z}{\sqrt{a^2\gamma^2 - a^2\beta^2 \cdot z^2 + 2a^3\beta^2 - a^4\beta^2}}$ | (N) $\pi \delta z = \frac{\beta a^2 \delta z}{\sqrt{a^2\gamma^2 - a^2\beta^2 \cdot z^2 + 2a^3\beta^2 - a^4\beta^2}}$

(Ξ) $\pi \delta z = \delta n$ | (O) $\delta n = \frac{\beta a \delta z}{\sqrt{\gamma^2 - \beta^2 \cdot z^2 + 2a^3\beta^2 - a^4\beta^2}}$ | (Π) $a \pm \chi = \sqrt{\chi^2 + y^2}$

(P) $a^2 \pm 2a\chi + \chi^2 = \chi^2 + y^2$ | (Σ) $2a \cdot \frac{1}{2} a \pm \chi = y^2$ | (Τ) $2az = y^2$ | (Υ) $a\beta \pm \gamma\chi = \beta \sqrt{\chi^2 + y^2}$

(Φ) $a^2\beta^2 \pm 2a\beta\gamma\chi + \gamma^2\chi^2 = \beta^2\chi^2 + \beta^2y^2$ | (X) $\beta^2 - \gamma^2 \cdot \chi^2 \mp 2a\beta\gamma\chi = a^2\beta^2 - \beta^2y^2$

(Ψ) $\chi^2 \mp \frac{2a\beta\gamma\chi}{\beta^2 - \gamma^2} + \frac{a^2\beta^2\gamma^2}{\beta^2 - \gamma^2} = \frac{a^2\beta^2 - \beta^2y^2}{\beta^2 - \gamma^2} + \frac{a^2\beta^2\gamma^2}{\beta^2 - \gamma^2}$ | (Ω) $\chi \mp a\beta\gamma = z$

(α) $z^2 = \frac{a^2\beta^2 - \beta^2y^2}{\beta^2 - \gamma^2} + \frac{a^2\beta^2\gamma^2}{\beta^2 - \gamma^2}$ | (β) $z^2 = \frac{a^2\beta^4 - y^2 \cdot \beta^4 - \beta^2\gamma^2}{\beta^2 - \gamma^2}$

(γ) $y^2 \cdot \frac{\beta^2 \cdot \beta^2 - \gamma^2}{\beta^2 - \gamma^2} = \frac{a^2\beta^4}{\beta^2 - \gamma^2} - z^2$ | (δ) $\frac{\beta^2 y^2}{\beta^2 - \gamma^2} = \frac{a^2\beta^4}{\beta^2 - \gamma^2} - z^2$

(ε) $\frac{\beta^2 y^2}{\gamma^2 - \beta^2} = z^2 - \frac{a^2\beta^4}{\gamma^2 - \beta^2}$ | (ς) $a = \sqrt{\chi^2 + y^2}$ | (η) $a^2 = \chi^2 + y^2$ | (θ) $y^2 = a^2 - \chi^2$

$$(A) \alpha x = y^2 \mid (B) \alpha \delta x = 2y \delta y \mid (\Gamma) \delta x = \frac{2y \delta y}{\alpha} \mid (\Delta) \frac{y \delta x}{\delta y} = \frac{y \cdot 2y \delta y}{\alpha} = \frac{2y^2}{\alpha}$$

$$(E) \frac{y \delta x}{\delta y} = 2x \mid (Z) y^2 = \frac{x^3}{\alpha - x} \mid (H) 2y \delta y = \frac{3\alpha x^2 - 2x^3}{\alpha - x^2} \cdot \delta x \mid (\Theta) \delta x = \frac{\alpha - x^2}{3\alpha x^2 - 2x^3} \cdot 2y \delta y$$

$$(I) \frac{y \delta x}{\delta y} = y \frac{\alpha - x^2}{3\alpha x^2 - 2x^3} \quad 2y \delta y = 2y^2 \cdot \frac{\alpha - x^2}{3\alpha x^2 - 2x^3} \mid (K) \frac{y \delta x}{\delta y} = \frac{2x^3}{\alpha - x} \cdot \frac{\alpha - x^2}{3\alpha x^2 - 2x^3} = \frac{2x \cdot \alpha - x}{3\alpha - 2x}$$

$$(\Lambda) \frac{y \delta y}{\delta x} = \frac{\alpha \delta x}{2\delta x} = \frac{1}{2} \alpha \mid (M) \frac{y}{\delta y} \sqrt{\delta x^2 + \delta y^2} = \frac{y \delta y}{\alpha \delta y} \sqrt{4y^2 + \alpha^2} = \frac{y}{\alpha} \sqrt{4y^2 + \alpha^2}$$

$$(N) \frac{y}{\delta y} \sqrt{\delta x^2 + \delta y^2} = \sqrt{4x^2 + \alpha x} \mid (\Xi) \frac{y}{\delta x} \sqrt{\delta x^2 + \delta y^2} = \sqrt{4y^2 + \alpha^2} = \sqrt{4x + \alpha^2} \mid (O) \sqrt{\delta x^2 + \delta y^2} = \frac{\delta y}{\alpha} \sqrt{4y^2 + \alpha^2}$$

$$(\Pi) \frac{\alpha}{8} \lambda z + \frac{1}{2 \cdot 8 \cdot \alpha} z^2 \mid (P) y \delta x = y \cdot \frac{2y \delta y}{\alpha} = \frac{2y^2 \delta y}{\alpha} \mid (\Sigma) \alpha y \delta x = \frac{\alpha y^3}{3\alpha} \mid (\Gamma) \alpha y \delta x = \frac{\alpha}{3} x y$$

$$(\Upsilon) \frac{\pi y^2 \delta x}{2\eta} = \frac{\pi y^2}{2\eta} \cdot \frac{2y \delta y}{\alpha} = \frac{\pi y^3 \delta y}{\alpha \eta} \mid (\Phi) \frac{\pi y^2 \delta x}{2\eta} = \frac{\pi y^4}{4\alpha \eta} \mid (X) \frac{\pi y^2 \delta x}{2\alpha \eta} = \frac{\pi y^2 x}{4\eta}$$

$$(\Psi) \frac{y \delta x}{\delta y} = 2x \mid (\Omega) \frac{y}{2\delta y} = \frac{x}{\delta x} \mid (\alpha) 2\lambda y = \lambda x + \lambda \alpha \mid (\beta) y^2 = \alpha x \mid (\gamma) \frac{y \delta y}{\delta x} = \frac{1}{2} \alpha$$

$$(\delta) y \delta y = \frac{1}{2} \alpha \delta x \mid (\epsilon) \frac{1}{2} y^2 = \frac{1}{2} \alpha x \mid (\zeta) y^2 = \alpha x \mid (\eta) 2\alpha x - x^2 = y^2 \mid (\theta) \alpha \delta x - x \delta x = y \delta y$$

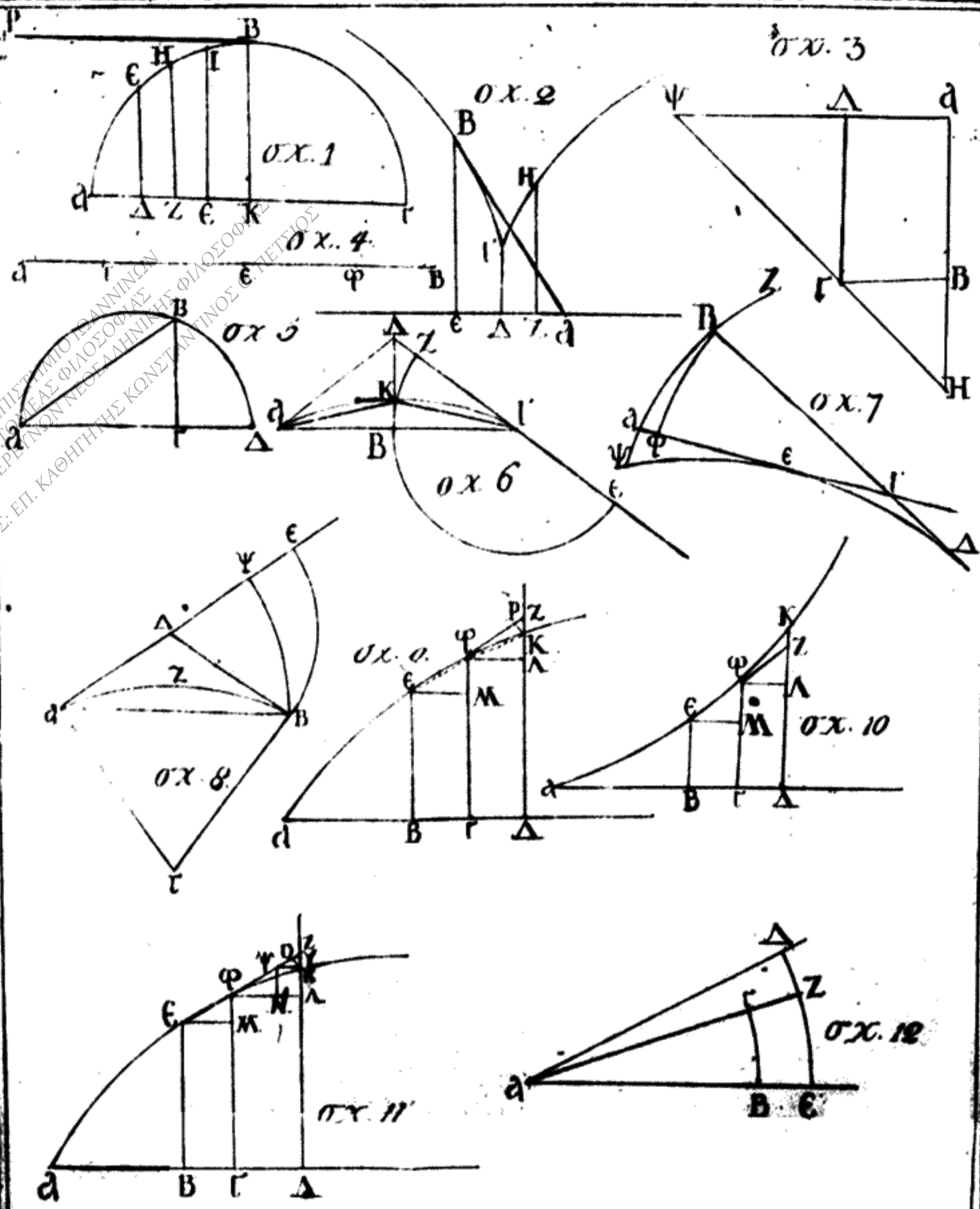
$$(i) \alpha = x \mid (\kappa) 2\alpha^2 - \alpha^2 = y^2 \mid (\lambda) y = \alpha \mid (\mu) z^2 - \frac{1}{2} \alpha^2 = y^2 \mid (\nu) z \delta z = y \delta y$$

$$(\xi) y x = \frac{\alpha + x}{\alpha} \sqrt{\beta^2 + x^2} \mid (\omicron) y = \frac{x + \alpha}{x} \sqrt{\beta^2 + x^2} \mid (\pi) \delta y = \frac{x^3 - \alpha \beta^2}{x^2 \sqrt{\beta^2 + x^2}} \delta x \mid (\rho) \frac{x^3 - \alpha \beta^2}{x^2 \sqrt{\beta^2 + x^2}} \delta x = 0$$

$$(\sigma) x = \sqrt[3]{\alpha \beta^2} \mid (\tau) \frac{x + \alpha}{x} \sqrt{\beta^2 + x^2} = 0 \mid (\upsilon) \beta^2 + x^2 = 0 \mid (\phi) x = \sqrt{-\beta^2} \mid (\chi) \frac{\alpha + x}{x} \cdot \frac{\gamma - x}{\beta - x}$$

$$(\psi) \frac{\alpha \gamma + \gamma x - \alpha x - x^2}{\beta x - x^2} \mid (\omega) \frac{\gamma x^2 - \beta x^2 - \alpha x^2 + 2\alpha \gamma x - \alpha \beta \gamma}{\beta x - x^2} \delta x \mid (\Lambda) \frac{\gamma x^2 - \beta x^2 - \alpha x^2 + 2\alpha \gamma x - \alpha \beta \gamma}{\beta x - x^2} \delta x = 0$$

$$(C) x^2 + \frac{2\alpha \gamma x}{\gamma - \beta - \alpha} = \frac{\alpha \beta \gamma}{\gamma - \beta - \alpha} \mid (D) x^2 + \frac{2\alpha \gamma x}{\gamma - \beta - \alpha} + \frac{\alpha^2 \gamma^2}{\gamma - \beta - \alpha^2} = \frac{\alpha^2 \gamma^2}{\gamma - \beta - \alpha} + \frac{\alpha \beta \gamma}{\gamma - \beta - \alpha} \mid (e) x = - \frac{\alpha \gamma \pm \sqrt{\alpha^2 \gamma^2 + \alpha \beta \gamma^2 - \alpha \beta^2 \gamma - \alpha^2 \beta \gamma}}{\gamma - \beta - \alpha}$$



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 ΔΙΕΥΘΥΝΤΗΣ: ΕΠ. ΚΑΘΗΓΗΤΗΣ ΚΩΝΣΤΑΝΤΙΝΟΣ ΠΕΤΤΙΟΣ

(A) $\beta x + \frac{a^3}{x} + \frac{a^3}{\beta}$ | (B) $\beta \delta x - \frac{a^3 \delta x}{x^2}$ | (Γ) $\frac{\beta x^2 \delta x - a^3 \delta x}{x^2}$ | (Δ) $\overline{\beta x^2 - a^3} \cdot \delta x = 0$ | (E) $x = \frac{a \sqrt{a}}{\sqrt{\beta}}$

(Z) $\beta, \frac{a \sqrt{a}}{\sqrt{\beta}}, \frac{a \sqrt{a}}{\sqrt{\beta}}$ | (H) $\frac{2a x \sqrt{a} + a^3}{\sqrt{x} \cdot x}$ | (Θ) $\frac{a x^2 \sqrt{a} - a^3 \sqrt{x} \cdot \delta x}{x^2 \sqrt{x}}$ | (I) $\overline{a x^2 \sqrt{a} - a^3 \sqrt{x} \cdot \delta x} = 0$

(K) $a x^2 \sqrt{a} = a^3 \sqrt{x}$ | (Λ) $a^2 \cdot a \cdot x^4 = a^6 \cdot x$ | (M) $x = a$ | (N) $\sqrt{a x} \cdot \sqrt{a x - x^2} = \sqrt{a^2 x^2 - a x^3}$

(Ξ) $\frac{2a^2 x - 3a x^2}{2 \sqrt{a^2 x^2 - a x^3}} \cdot \delta x$ | (O) $\frac{2a^2 x - 3a x^2}{2 \sqrt{a^2 x^2 - a x^3}} \cdot \delta x = 0$ | (Π) $2a^2 x = 3a x^2$ | (P) $x = \frac{2}{3} a$

(Σ) $H = \frac{\delta \sigma^3}{-\delta x \delta \delta y}$ | (Τ) $H = \sqrt{\frac{\delta x^2 + \delta y^2}{-\delta x \delta \delta y}}^3$ | (Υ) $\Phi K = \frac{z \delta y}{\delta x}$ | (Φ) $\Lambda K = \frac{z \delta \sigma}{\delta x}$

(X) $\frac{\delta x \delta z \delta \sigma + z \delta x \delta \delta \sigma - z \delta \sigma \delta \delta x}{\delta x^2} = 0$ | (Ψ) $z = \frac{\delta x \delta z \delta \sigma}{\delta \sigma \delta \delta x - \delta x \delta \delta \sigma}$ | (Ω) $z = \frac{\delta x \delta y \delta \sigma}{\delta \sigma \delta \delta x - \delta x \delta \delta \sigma}$

(α) $H = \frac{\delta y \delta \sigma^2}{\delta \sigma \delta \delta x - \delta x \delta \delta \sigma}$ | (β) $H = \frac{y \delta \sigma^3}{\delta x \delta \sigma^2 - y \delta x \delta \delta y}$ | (γ) $\tau \delta \sigma = H \delta \pi$ | (δ) $\tau \delta \sigma = y \delta y$

(ε) $H = \frac{y \delta y}{\delta \pi}$ | (ζ) $AM = \frac{z \delta \kappa}{\sqrt{\delta \kappa^2 + \delta \iota^2}}$ | (η) $\pi = \frac{y \delta x}{\sqrt{\delta x^2 + \delta y^2}}$ | (θ) $\delta \pi = \frac{\delta y \delta x \cdot \delta x^2 + \delta y^2 - y \delta x \delta y \delta \delta y}{\delta x^2 + \delta y^2 \sqrt{\delta x^2 + \delta y^2}}$

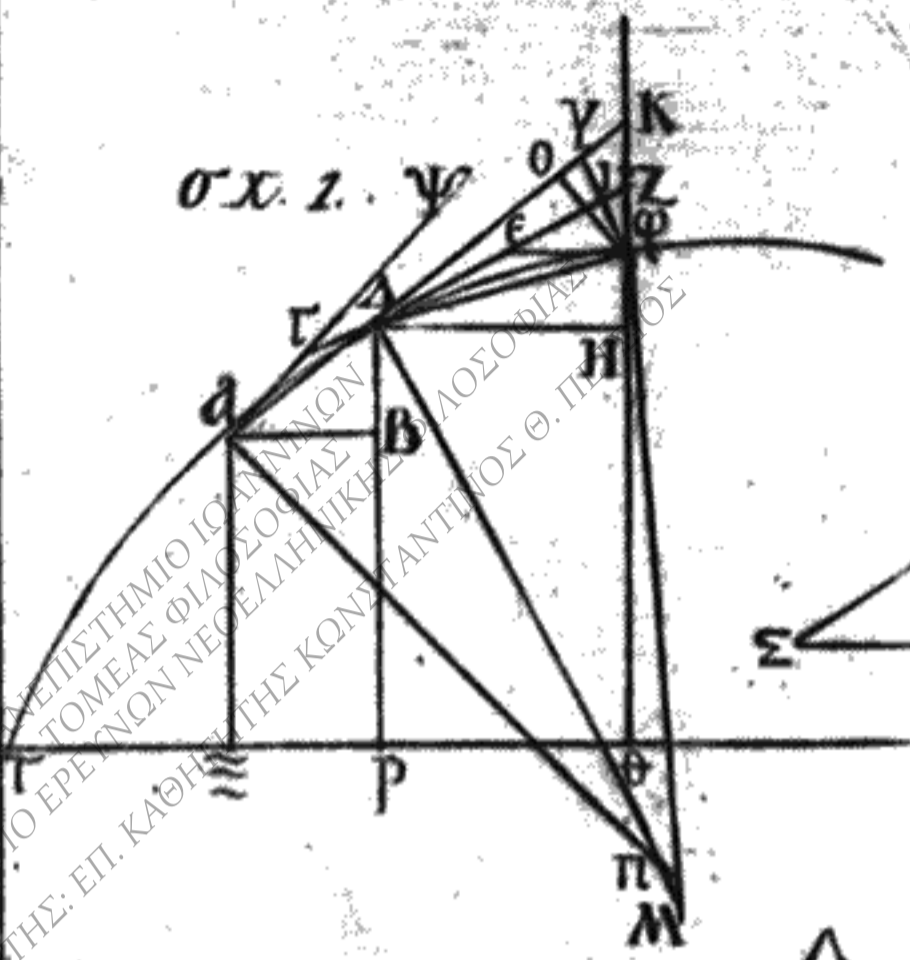
(ι) $\delta \pi = \frac{\delta y \delta x \delta \sigma^2 - y \delta x \delta y \delta \delta y}{\delta \sigma^3}$ | (κ) $\delta \pi = \frac{y \delta \delta x + \delta y \delta x \cdot \delta x^2 + \delta y^2 - y \delta x^2 \delta \delta x}{\delta x^2 + \delta y^2 \sqrt{\delta x^2 + \delta y^2}}$

(λ) $\frac{y \delta y^2 \delta \delta x + \delta x \delta y \cdot \delta x^2 + \delta y^2}{\delta x^2 + \delta y^2 \sqrt{\delta x^2 + \delta y^2}} = \delta \pi$ | (μ) $\delta y \cdot \frac{y \delta y \delta \delta x + \delta x \delta \sigma^2}{\delta \sigma^3} = \delta \pi$ | (ν) $\delta \pi = \frac{y \delta \delta x + \delta y \delta x}{\sqrt{\delta x^2 + \delta y^2}}$

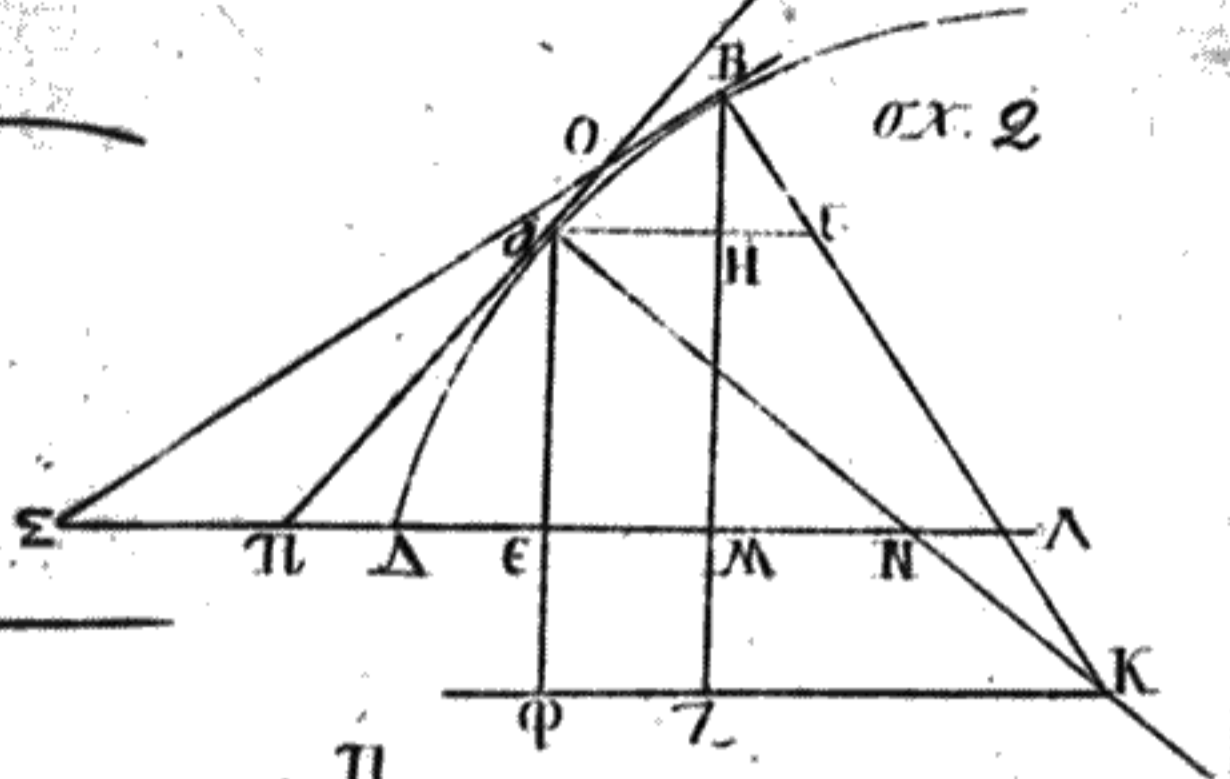
(ξ) $\delta \sigma^2 = \delta x^2 + \delta y^2$ | (ο) $\delta \delta x = -\frac{\delta y \delta \delta y}{\delta x}$ | (π) $\delta \pi = \frac{\delta y \cdot \delta x^2 - y \delta \delta y}{\delta x \delta \sigma}$ | (ρ) $H = \frac{y \delta \sigma^3}{\delta x \delta \sigma^2 - y \delta x \delta \delta y}$

(σ) $H = \frac{y \delta \sigma^3}{\delta x \delta \sigma^2 + y \delta y \delta \delta x}$ | (τ) $H = \frac{\delta x}{\delta x^2 - y \delta \delta y}$

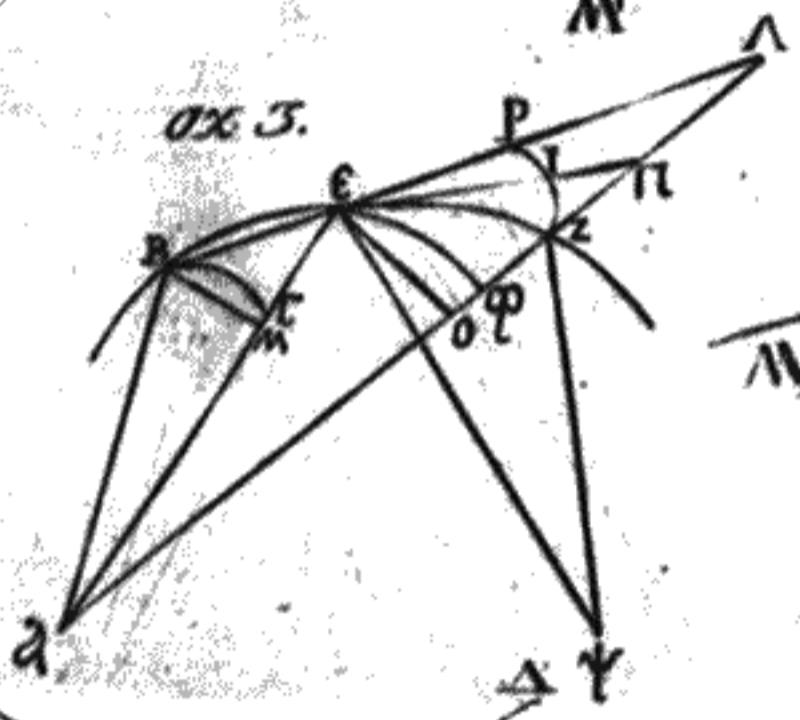
σχ. 1.



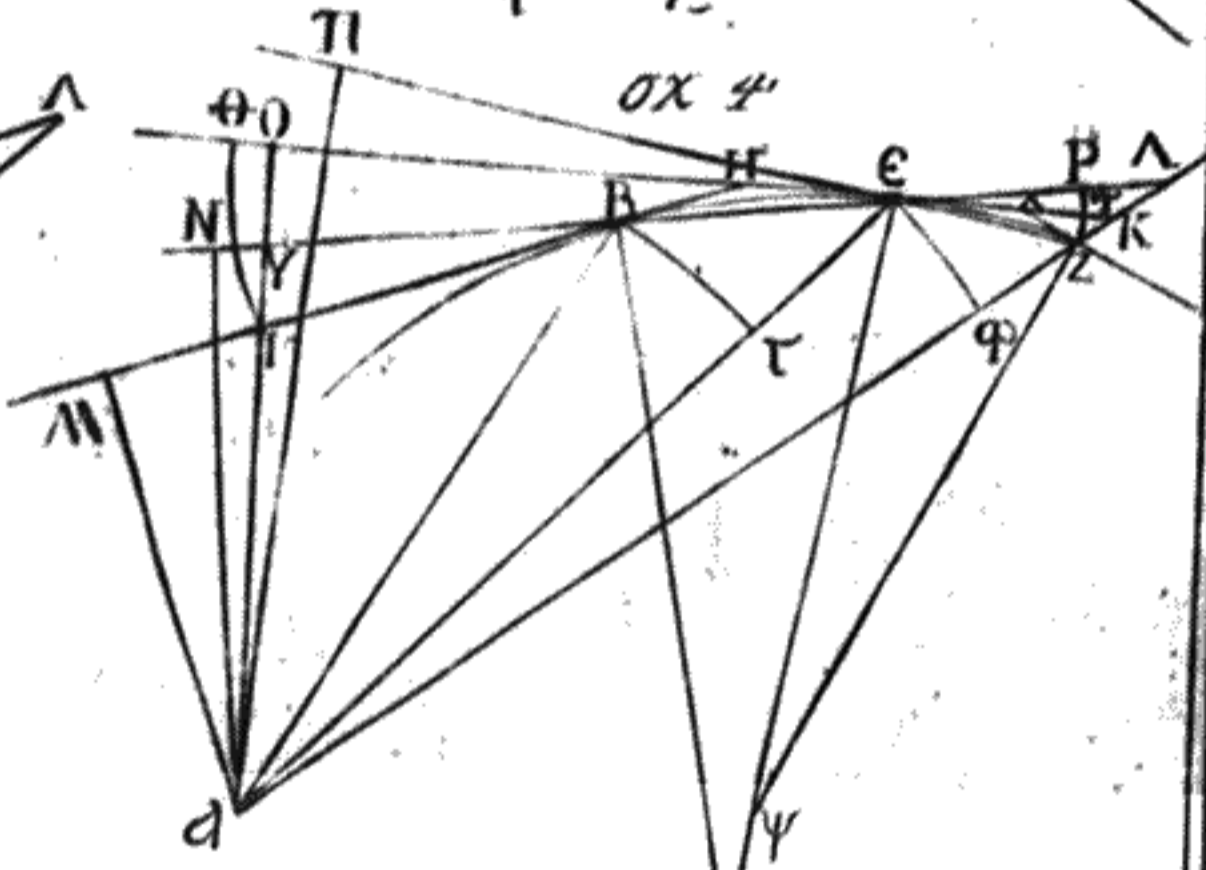
σχ. 2



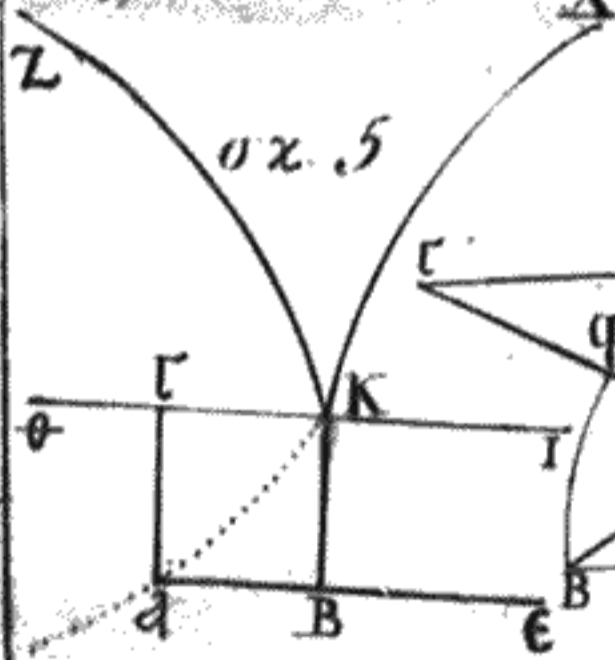
σχ. 3.



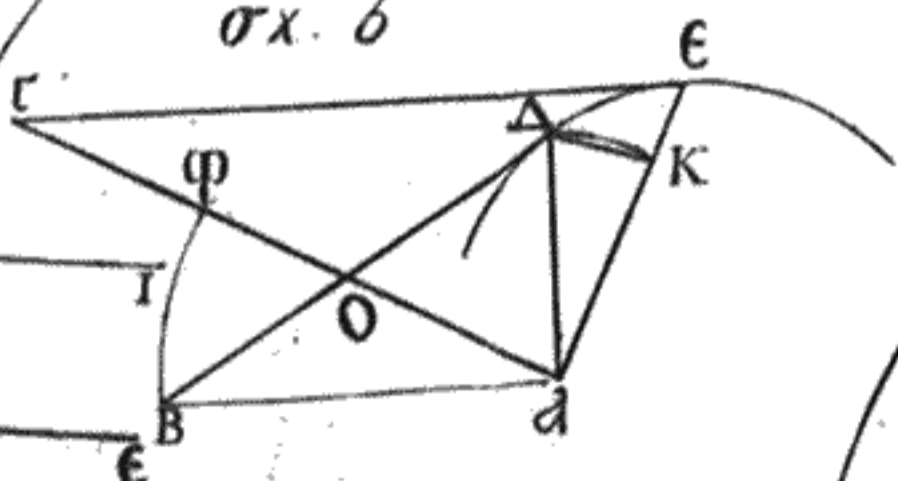
σχ. 4



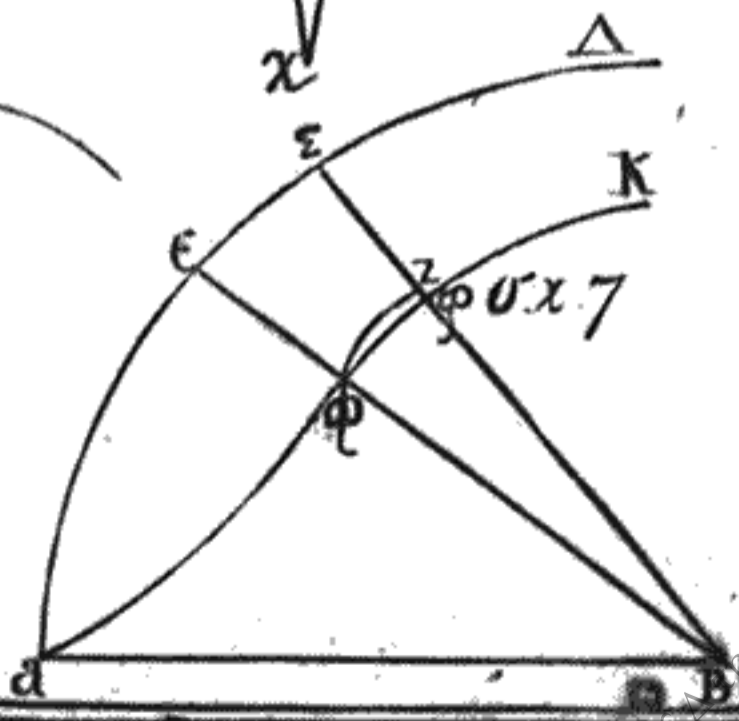
σχ. 5



σχ. 6



σχ. 7



(A) $2\alpha\chi = y^2$ | (B) $H = \frac{d\sigma^3}{-d\chi d\delta y}$ | (Γ) $\alpha d\chi = y\delta y$ | (Δ) $d\chi^2 = \frac{y^2 d\delta y^2}{\alpha^2}$ | (E) $d\sigma = \sqrt{d\chi^2 + d\delta y^2}$

(Z) $d\sigma = \frac{d\delta y}{\alpha} \sqrt{y^2 + \alpha^2}$ | (H) $d\sigma^3 = \frac{d\delta y^3}{\alpha^3} \sqrt{y^2 + \alpha^2}^3$ | (Θ) $y d\delta y + d\delta y^2 = 0$ | (I) $-d\delta y = \frac{d\delta y^2}{y}$

(K) $-d\chi d\delta y = \frac{d\delta y^3}{\alpha}$ | (Λ) $\frac{d\sigma^3}{-d\chi d\delta y} = \frac{d\delta y^3}{\alpha^3} \sqrt{y^2 + \alpha^2}^3 \cdot \frac{\alpha}{d\delta y^3} = \frac{1}{\alpha^2} \sqrt{y^2 + \alpha^2}^3$

(M) $H = \frac{1}{\alpha^2} \sqrt{y^2 + \alpha^2}^3$ | (N) $H = \frac{d\delta y d\sigma^2}{d\sigma d\delta\chi - d\chi d\delta\sigma}$ | (Ξ) $d\sigma^2 = \frac{d\delta y^2}{\alpha^2} \cdot \frac{y^2 + \alpha^2}{d\delta y^2}$ | (O) $d\delta y d\sigma^2 = \frac{d\delta y^3}{\alpha^2} \cdot \frac{y^2 + \alpha^2}{d\delta y^2}$

(Π) $d\delta\sigma = \frac{y d\delta y^2 + y^2 d\delta y + \alpha^2 d\delta y}{\alpha \sqrt{y^2 + \alpha^2}}$ | (P) $-d\chi d\delta\sigma = \frac{-y^2 d\delta y^3 - y^3 d\delta y d\delta y - \alpha^3 y d\delta y d\delta y}{\alpha^2 \sqrt{y^2 + \alpha^2}}$

(Σ) $\alpha d\delta\chi = d\delta y^2 + y d\delta y$ | (T) $d\sigma d\delta\chi = \frac{d\delta y^3 \sqrt{y^2 + \alpha^2} + y d\delta y d\delta y \sqrt{y^2 + \alpha^2}}{\alpha^2}$

(Υ) $d\sigma d\delta\chi - d\chi d\delta\sigma = \frac{d\delta y^3 \sqrt{y^2 + \alpha^2} + y d\delta y d\delta y \sqrt{y^2 + \alpha^2} - y^2 d\delta y^3 - y^3 d\delta y d\delta y - \alpha^2 y d\delta y d\delta y}{\alpha^2 \sqrt{y^2 + \alpha^2}}$

(Φ) $d\sigma d\delta\chi - d\chi d\delta\sigma = \frac{d\delta y^3}{\sqrt{y^2 + \alpha^2}}$ | (X) $H = \frac{d\delta y d\sigma^2}{d\sigma d\delta\chi - d\chi d\delta\sigma} = \frac{d\delta y^3}{\alpha^2} \cdot \frac{y^2 + \alpha^2}{d\delta y^2} \cdot \frac{1}{d\delta y^3} \sqrt{y^2 + \alpha^2}$

(Ψ) $H = \frac{1}{\alpha^2} \sqrt{y^2 + \alpha^2}^3$ | (Ω) $\alpha d\chi = \beta d\delta y$ | (α) $H = \frac{y d\sigma^3}{d\chi d\sigma^2 - y d\chi d\delta y}$ | (β) $d\sigma = \sqrt{d\chi^2 + d\delta y^2}$

(γ) $d\chi^2 = \frac{\beta^2 d\delta y^2}{\alpha^2}$ | (δ) $d\sigma = \frac{d\delta y}{\alpha} \sqrt{\beta^2 + \alpha^2}$ | (ε) $d\sigma^3 = \frac{d\delta y^3}{\alpha^3} \sqrt{\beta^2 + \alpha^2}^3$ | (ζ) $d\chi d\sigma^2 = \frac{\beta d\delta y}{\alpha^3} \cdot \frac{\beta^2 + \alpha^2}{d\delta y^2}$

(η) $\beta d\delta y = 0$ | (θ) $H = \frac{y d\sigma^3}{d\chi d\sigma^2 - y d\chi d\delta y} = \frac{y d\delta y^3 \sqrt{\beta^2 + \alpha^2}^3}{\alpha^3} \cdot \frac{\alpha^3}{\beta d\delta y^3 \cdot \beta^2 + \alpha^2}$ | (ι) $H = \frac{y}{\beta} \sqrt{\beta^2 + \alpha^2}$

(κ) $y = \alpha + \sqrt[3]{\alpha^3 - 2\alpha^2\chi + \alpha\chi^2}$ | (λ) $d\delta y = \frac{-2\alpha^2 d\chi + 2\alpha\chi d\chi}{3 \cdot \frac{\alpha^3 - 2\alpha^2\chi + \alpha\chi^2}{3}^{\frac{2}{3}}}$ | (μ) $d\delta y = \frac{-2\alpha d\chi^2}{\alpha^3 - 2\alpha^2\chi + \alpha\chi^2}^{\frac{2}{3}}$

(ν) $9 \cdot \frac{\alpha^3 - 2\alpha^2\chi + \alpha\chi^2}{3}^{\frac{2}{3}} = 0$ | (ξ) $\chi = \alpha$ | (ο) $y = \alpha$ | (π) $z^3 = \alpha\phi^2$

ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ
ΤΟΜΕΑΣ ΦΙΛΟΣΟΦΙΑΣ
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ΙΩΑΝΝΙΝΑ 2006

$$(A) \quad \Gamma\Phi = \frac{\delta y^2 \delta \chi - y \delta \chi \delta \delta y}{\delta y^2} \quad | \quad (B) \quad \Gamma\Theta = \frac{\delta y^2 \delta \chi - y \delta \chi \delta \delta y + \delta \chi^3}{\delta y^2}$$

$$(Γ) \quad \beta z = \alpha^2 - 2\alpha y + y^2 \quad | \quad (\Delta) \quad \delta z = -\frac{2\alpha \delta y + 2y \delta y}{\beta} \quad | \quad (E) \quad \delta \chi = \frac{2y^2 \delta y - 2\alpha y \delta y}{\alpha \beta}$$

$$(Ζ) \quad \frac{4y \delta y^2 + 2y^2 \delta \delta y - 2\alpha \delta y^2 - 2\alpha y \delta \delta y}{\alpha \beta} = 0 \quad | \quad (H) \quad y \delta \delta y = \frac{\alpha \delta y^2 - 2y \delta y^2}{y - \alpha} = \frac{\alpha - 2y}{y - \alpha} \delta y^2$$

$$(\Theta) \quad \frac{\delta y^2 \delta \chi - y \delta \chi \delta \delta y + \delta \chi^3}{\delta y^2} = 0 \quad | \quad (I) \quad \delta y^2 + \delta \chi^2 - y \delta \delta y = 0$$

$$(K) \quad \delta y^2 + \frac{4y^4 \delta y^2 - 8\alpha y^3 \delta y^2 + 4\alpha^2 y^2 \delta y^2 - \alpha \delta y^2 + 2y \delta y^2}{\alpha^2 \beta^2} = 0$$

$$(\Lambda) \quad \frac{4y^5 - 12\alpha y^4 + 12\alpha^2 y^3 - 4\alpha^3 y^2 + 3\alpha^2 \beta^2 y - 2\alpha^3 \beta^2}{\alpha^2 \beta^2 \cdot \overline{y - \alpha}} = 0$$

$$(M) \quad y^5 - 3\alpha y^4 + 3\alpha^2 y^3 - \alpha^3 y^2 + \frac{3}{4} \alpha^2 \beta^2 y = \frac{1}{2} \alpha^3 \beta^2$$