

10 ρ'ιδίετη β3δ ηα1θλ

1. a^2 2. $\frac{3\pi a^2}{2}$ 3. $\frac{\pi a^2}{4}$ 4. $\frac{p^2}{6} (3 + 4\sqrt{2})$

5. $(\pi - 1) \frac{a^2}{4}$ 6. $\frac{8}{27} (10\sqrt{10} - 1)$

7. $2\sqrt{x_0(x_0 + \frac{p}{2})} + p \ln \frac{\sqrt{x_0} + \sqrt{x_0 + \frac{p}{2}}}{\sqrt{\frac{p}{2}}}$

8. $\sqrt{h^2 - a^2} \quad (h = a \cosh \frac{b}{a})$

9. $x_0 - \sqrt{2} + \sqrt{1 + e^{2x_0}} - \ln \frac{1 + \sqrt{1 + e^{2x_0}}}{1 + \sqrt{2}}$

10. $\frac{e^2 + 1}{4}$ 11. $a \ln \frac{a+b}{a-b} - b$ 12. $\ln \tan(\frac{\pi}{4} + \frac{a}{2})$

13. $6a$ 14. $a(1 + \frac{\ln(1+\sqrt{2})}{\sqrt{2}})$ 15. $8a$

16. $\pi a \sqrt{1+4\pi^2} + \frac{a}{2} \ln(2\pi + \sqrt{1+4\pi^2})$ 17. $8a$

18. 1 19. $\frac{2\pi}{15}$ 20. $\frac{\pi^2}{2}$ 21. $\frac{512}{15} \pi$ 22. $\frac{20\pi}{3}$

23. 90π 24. $\frac{16\pi}{15}$ 25. $\frac{3}{7} \pi a b^2$ 26. $2\pi^2 a^2 b$

27. $\frac{1}{3}$ 28. π 29. $\frac{1}{2}$ 30. $\frac{1}{2} \ln \frac{\sqrt{1+a^4} + 1}{\sqrt{1+a^4} - 1}$ 31. $\frac{\pi^2}{8}$