

$$\sec \theta d\theta = \ln |\sec \theta + \tan \theta| + C$$

$$C = \ln 2.$$

$$\frac{\sec^2 \theta d\theta}{\cos \theta} = 4 \int \tan^2 \theta \sec \theta d\theta$$

$$\sec \theta d\theta \quad (\text{Pr. 8.2.36})$$

$$2 \sec^2 \theta d\theta$$

$$\theta d(\sec \theta)$$

$$2 - 1) = \frac{64}{15}(1 + \sqrt{2})$$

$$2) \frac{1}{2} \sqrt{2} \sec \theta \tan \theta d\theta$$

$$(\text{Sol. 14}) = \sqrt{2} - \ln(1 + \sqrt{2})$$

$$\frac{\sec^2 \theta d\theta}{\sin \theta} = \frac{1}{\sin \theta} \int \frac{\cos^2 \theta \sec \theta d\theta}{\sin \theta}$$

$$\ln |\sec \theta| \Big|_0^{\arctan(1/2)}$$

$$-x^2).$$

$$\frac{d\theta}{\theta} = \frac{1}{9} \int \frac{\cos^2 \theta \sec \theta d\theta}{\sin^3 \theta}$$

$$-\frac{1}{3} \sin^{-3} \theta + \sin^{-1} \theta \Big|_{\pi/4}^{\pi/3}$$

$$= \frac{1}{25a} \int \frac{\sec^2 \theta d\theta}{\tan^3 \theta}$$

$$\theta + 16$$

$$\frac{1}{25a} (\sqrt{2} + 14\sqrt{17})$$

$$\text{Pr. 14.} \int \sqrt{a^2 - x^2} dx = \int \sqrt{a^2 - a^2 \sin^2 \theta} \cdot a \cos \theta d\theta = a^2 \int \cos^2 \theta d\theta$$

$$= \frac{1}{2} a^2 \left(\frac{\sqrt{a^2 - x^2}}{a} \cdot \frac{x}{a} + \sin^{-1} \left(\frac{x}{a} \right) \right) + C$$

$$= \frac{1}{2} a^2 \left(\frac{\sqrt{a^2 - x^2}}{a} + \sin^{-1} \left(\frac{x}{a} \right) \right) + C$$

$$\text{Pr. 15.} \int \sqrt{a^2 + x^2} dx = \int \sqrt{a^2 + a^2 \tan^2 \theta} \cdot a \sec \theta d\theta = a^2 \int \sec^3 \theta d\theta$$

$$= \frac{1}{2} a^2 (\sec \theta \tan \theta + \ln |\sec \theta + \tan \theta|) + C$$

$$= \frac{1}{2} a^2 \left(\frac{\sqrt{a^2 + x^2}}{a} \cdot \frac{x}{a} + \ln \left| \frac{\sqrt{a^2 + x^2}}{a} + \frac{x}{a} \right| \right) + C$$

$$= \frac{1}{2} a^2 \left(\frac{\sqrt{a^2 + x^2}}{a} + \ln |x + \sqrt{a^2 + x^2}| \right) + C' \quad \text{where } C' = C - \frac{1}{2} a^2 \ln a.$$

$$\text{Pr. 16.} \int \sqrt{1 - a^2 x^2} dx = \frac{1}{a} \int \sqrt{1 - \sin^2 \theta} \cos \theta d\theta = \frac{1}{a} \int \cos^2 \theta d\theta$$

$$= \frac{1}{a} \left(\cos \theta \sin \theta + \theta \right) + C = \frac{1}{2} x \sqrt{1 - a^2 x^2} + \frac{1}{2a} \sin^{-1} ax + C$$

$$\text{Pr. 17.} \int \frac{\sqrt{x^2 + 9}}{x} dx = \int \frac{\sqrt{\tan^2 \theta + 9}}{\tan \theta / \sqrt{3}} \cdot \frac{3 \sec^2 \theta d\theta}{\sqrt{3}} = 3 \int \frac{\sec^2 \theta d\theta}{\tan \theta} + C$$

$$= 3 \int (\sec \theta \tan \theta + \csc \theta) d\theta = 3(\sec \theta - \ln |\csc \theta + \cot \theta|) + C$$

$$= 3\sqrt{x} - 3 \ln \left| \frac{\sqrt{x^2 + 9}}{\sqrt{3}x} + \frac{3}{\sqrt{3}x} \right| + C$$

$$\text{Pr. 18.} \int (a^2 - x^2)^{3/2} dx = \int (a^2 - a^2 \sin^2 \theta)^{3/2} a \cos \theta d\theta = a^4 \int \cos^4 \theta d\theta$$

$$= \frac{1}{4} \left(\frac{3}{4} \cos^3 \theta \sin \theta + \frac{3}{8} \cos \theta \sin \theta + \frac{3}{8} \theta \right) + C \quad (\text{Sol. 4})$$

$$= \frac{1}{4} \left(\frac{(a^2 - x^2)^{3/2}}{4a^3} \cdot \frac{x}{a} + \frac{3\sqrt{a^2 - x^2}}{8a^3} \cdot \frac{x}{a} + \frac{3}{8} \sin^{-1} \frac{x}{a} \right) + C$$

$$= \frac{1}{4} (a^2 - x^2)^{3/2} + \frac{3}{8} x a^2 \sqrt{a^2 - x^2} + \frac{3}{8} a^4 \sin^{-1} \frac{x}{a} + C$$

$$\text{Pr. 19.} \int \frac{dx}{x^3 \sqrt{2 - x^2}} = \int \frac{a \sec \theta \tan \theta d\theta}{a^3 \sec^3 \theta \sqrt{2 \sec^2 \theta - a^2}}$$

$$= \frac{1}{2a} \int \cos^2 \theta d\theta = \frac{1}{2a} \left(\cos \theta \sin \theta + \theta \right) + C$$

$$= \frac{1}{2a} \left(\frac{1}{\sqrt{2 - x^2}} \cdot \frac{\sqrt{2 - x^2}}{a} + \sec^{-1} \frac{x}{a} \right) + C = \frac{\sqrt{2 - x^2}}{2a^2 x^2} + \frac{1}{2a^2} \sec^{-1} \left| \frac{x}{a} \right| + C$$

$$\text{Pr. 20.} \int \frac{(x^2 - 9)^{3/2}}{x^3} dx = \int \frac{(a^2 \sec^2 \theta - a^2)^{3/2}}{a^3 \sec^3 \theta} a \sec \theta \tan \theta d\theta = a \int \frac{\tan^4 \theta d\theta}{\sec^2 \theta}$$

$$= a \int \frac{(\sec^2 \theta - 1)^2}{\sec^2 \theta} d\theta = a \int (\sec^2 \theta - 2 + \cos^2 \theta) d\theta = a \left(\tan \theta - 2\theta + \frac{1}{2} \cos \theta \sin \theta + \frac{1}{2} \theta \right) + C$$

$$= a \left(\frac{\sqrt{x^2 - 9}}{x} - \frac{3}{2} \sec^{-1} \frac{x}{3} + \frac{1}{2} \cdot \frac{3}{x} + \frac{1}{2} \frac{\sqrt{x^2 - 9}}{x} \right) + C = \left(1 + \frac{a^2}{2x^2} \right) \sqrt{x^2 - a^2} + \frac{3}{2} \sec^{-1} \left| \frac{x}{a} \right| + C$$



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**Dan Kalman, Sacha Forgoston, Albert
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