

$$1.. f(x) = \sin(3x)$$

$$\frac{d}{dx} = \frac{(2 + \sin(3x))^2 \cos(3x) + c}{9}$$

$$2.. y = \sqrt[3]{\sin x}$$

$$\frac{d}{dx} = \frac{\cos(x)}{3 \sin(x)^{2/3}}$$

$$3.. f(x) = \sec(5x+2)$$

$$\frac{d}{dx} = \frac{\ln(\sec(5x+2) + \tan(5x+2)) + c}{5}$$

$$4.. y = 3 \tan(2x)$$

$$\frac{d}{dx} = \frac{3 \ln(1 + \tan(2x)^2) + c}{4}$$

$$5.. f(x) = \cos(7-2x)$$

$$\frac{d}{dx} = \sin\left(\frac{-7+2x}{2}\right) + c$$

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$$6.. y = \sin \frac{y}{2}$$

$$\frac{d}{dx} = -2 \cos \left(\frac{y}{2} \right) + c$$