



Differential Equations Separation of Variable Practice Problems

Find the General Solution of the following Differential Equations:

$$1. \frac{dy}{dx} = \sqrt{16 - x^2}$$

$$2. \frac{dy}{dx} = y \sec^2 x$$

$$3. y^3 \frac{dy}{dx} = x^3$$

$$4. \frac{dy}{dx} = \frac{1 + y}{1 - y}$$

$$5. \frac{dz}{dt} = 3t^2 - te^{t^2}$$

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