AP Calculus
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Hwk Differential Equations/Seperation of Variables Date______ Period____

Find the general solution of each differential equation.

$$1) f'(x) = -2\sin x$$

$$2) \ \frac{dy}{dx} = \frac{2}{x}$$

For each problem, find the particular solution of the differential equation that satisfies the initial condition.

3)
$$\frac{dy}{dx} = -4x + 1$$
, $y(-1) = -1$

Find the general solution of each differential equation.

$$4) \frac{dy}{dx} = \frac{2x}{y^2}$$