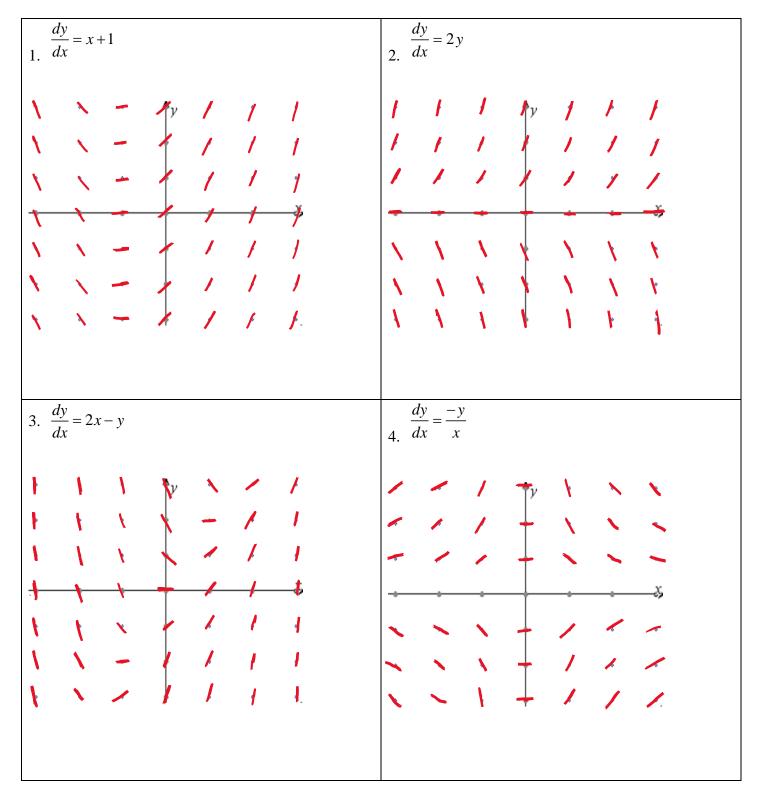
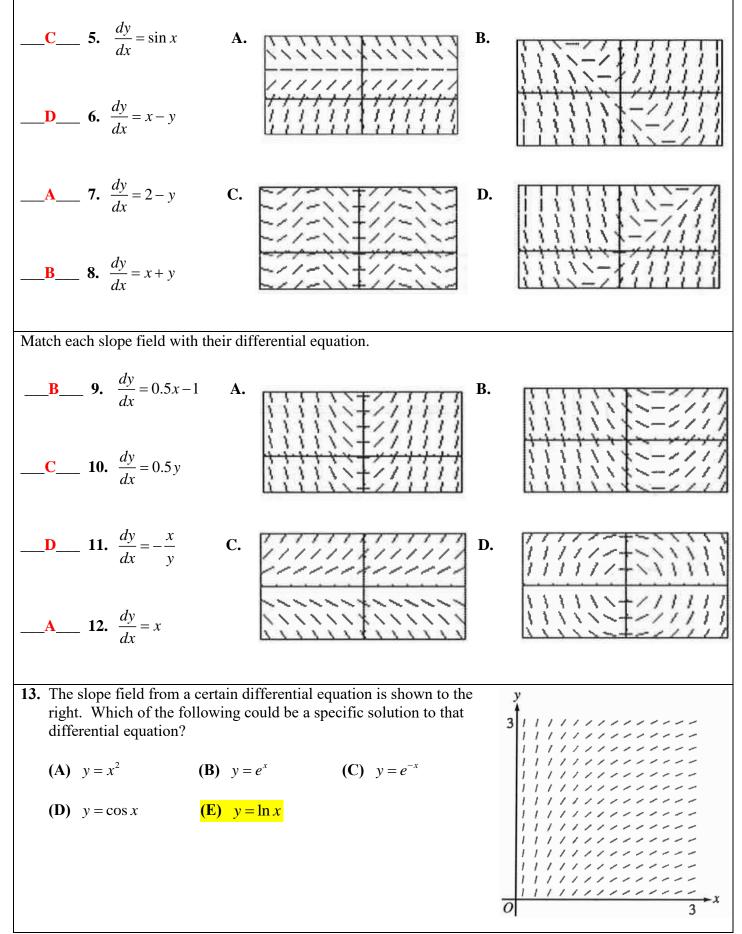
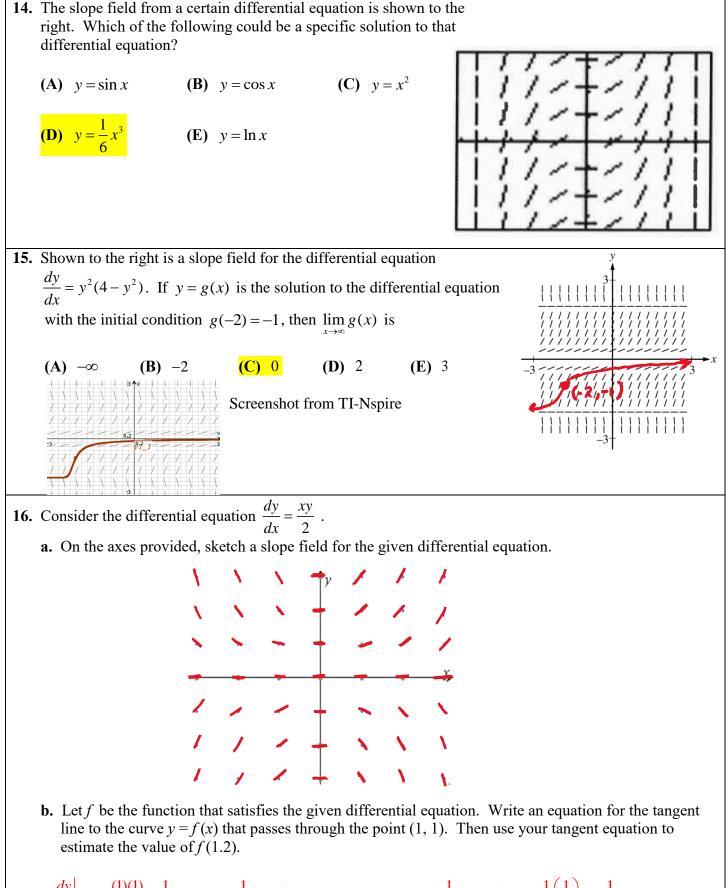
## AP Calculus AB SOLUTIONS Skill Builder: Topic 7.3 – Sketching Slope Fields Topic 7.4 – Reasoning Using Slope Fields

Sketch a slope field for each of the following differential equations.

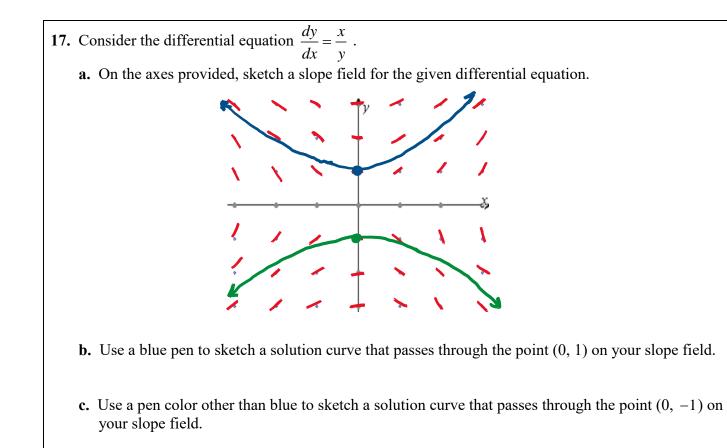


Match each slope field with their differential equation.





$$\frac{dy}{dx}\Big|_{(1,1)} = \frac{(1)(1)}{2} = \frac{1}{2} \qquad y - 1 = \frac{1}{2}(x - 1) \qquad f(1,2) \approx y(1,2) = 1 + \frac{1}{2}(1,2-1) = 1 + \frac{1}{2}\left(\frac{1}{5}\right) = 1\frac{1}{10} \text{ or } 1.1$$



Screenshot from TI-Nspire

