

AP Calculus
 WS: Slope Field Matching

Name: _____



A. _____ $\frac{dy}{dx} = y^2$

B. _____ $\frac{dy}{dx} = 1$

C. _____ $\frac{dy}{dx} = x^2$

D. _____ $\frac{dy}{dx} = x + y$

E. _____ $\frac{dy}{dx} = \sin(x)$

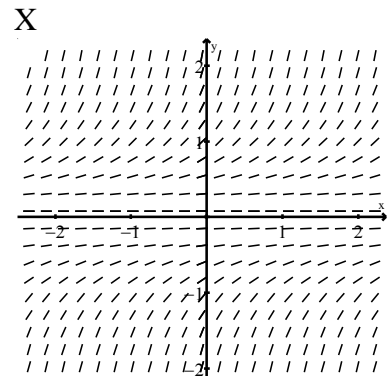
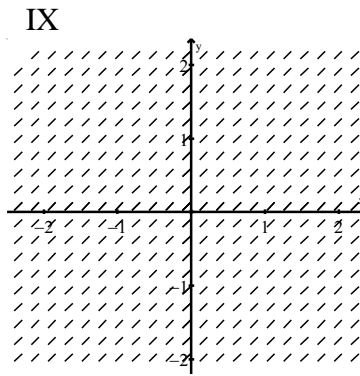
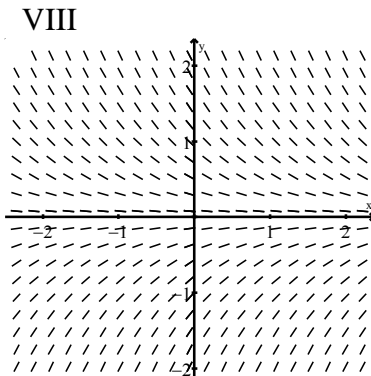
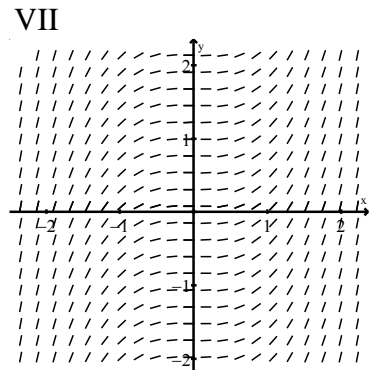
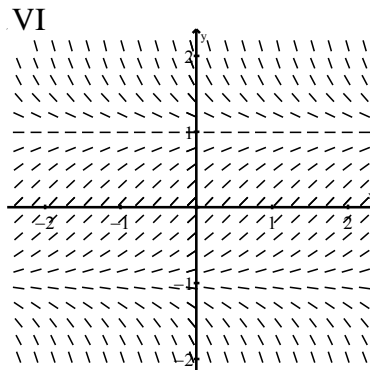
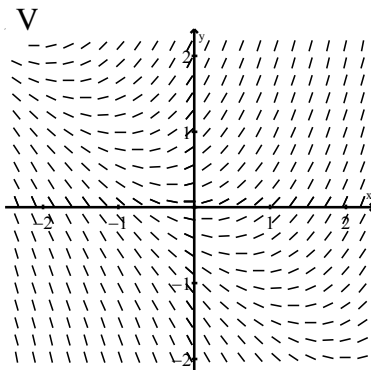
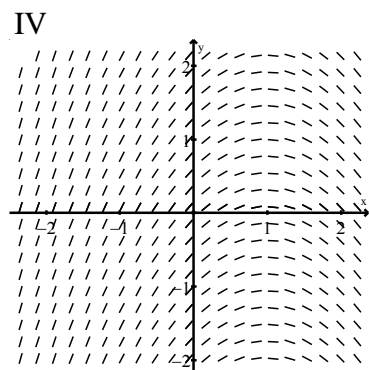
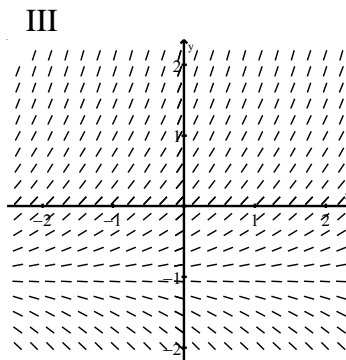
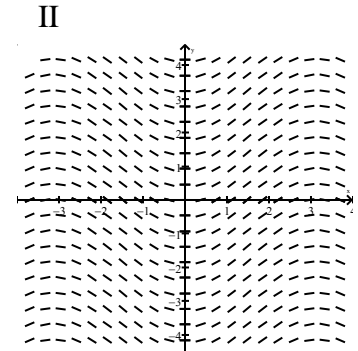
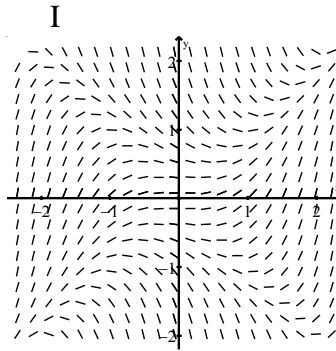
F. _____ $\frac{dy}{dx} = -y$

G. _____ $\frac{dy}{dx} = 1 - x$

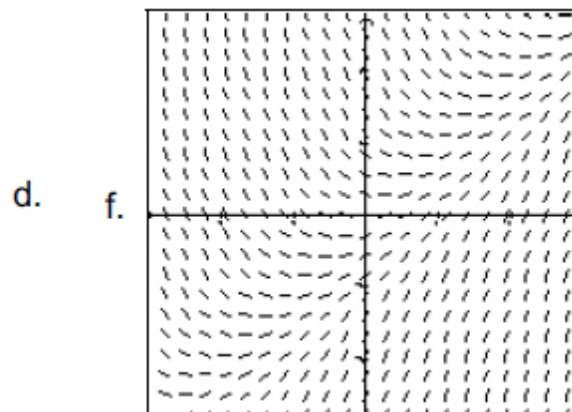
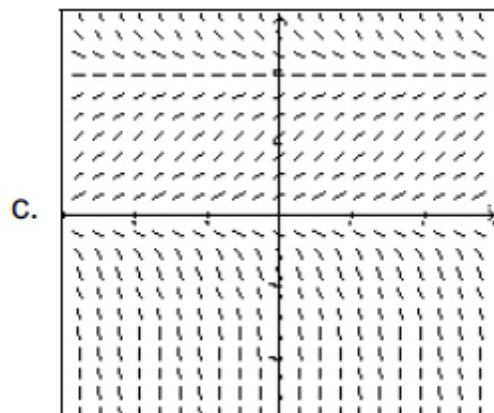
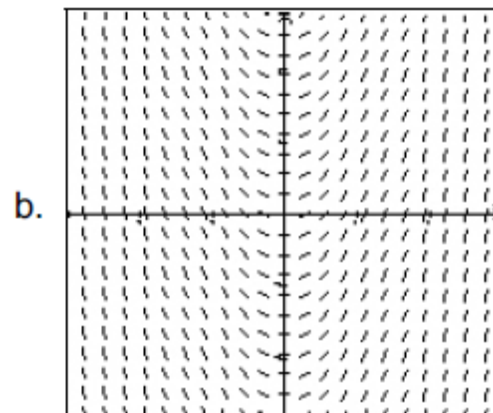
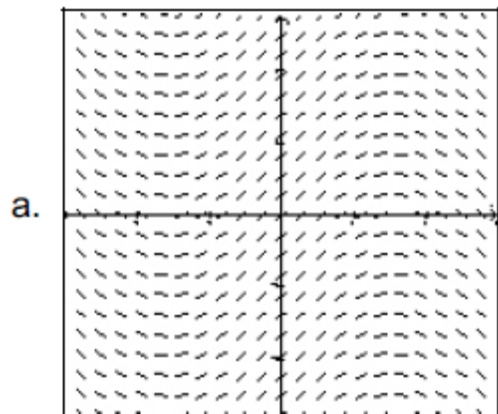
H. _____ $\frac{dy}{dx} = 1 - y^2$

I. _____ $\frac{dy}{dx} = 1 + y$

J. _____ $\frac{dy}{dx} = x^2 - y^2$



Below are four examples of **slope fields**. Match them with the correct differential equation.



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

2. $\frac{dy}{dx} = \cos x$

3. $\frac{dy}{dx} = 2x$

4. $\frac{dy}{dx} = y(2 - y)$