

Exploring Slope Fields

Turn in this worksheet next time; this will count as a quiz!

Match the following differential equations with their slope fields below and on the next page, then draw a few solutions for each differential equation onto its slope field:

1. $y' = \frac{y}{x}$.

2. $y' = x$.

3. $y' = \frac{y-2}{x-1}$.

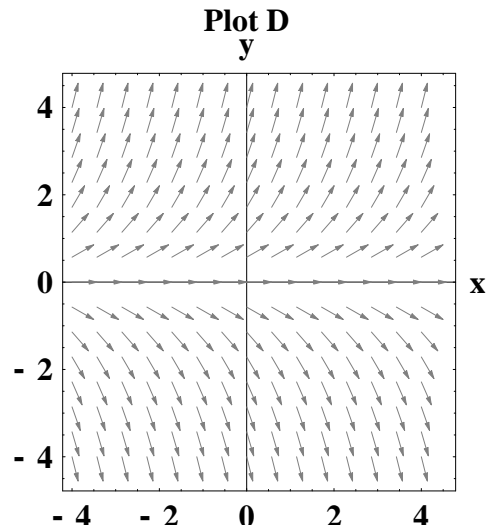
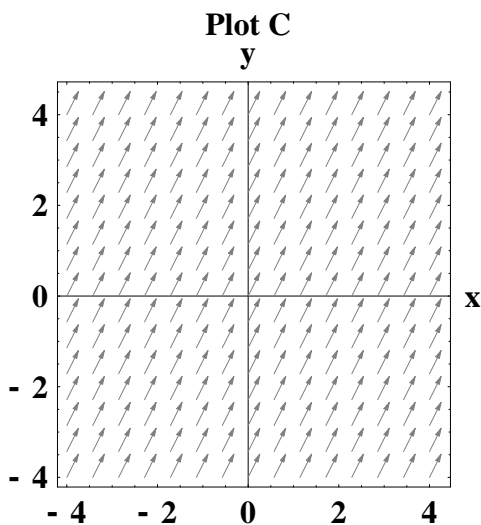
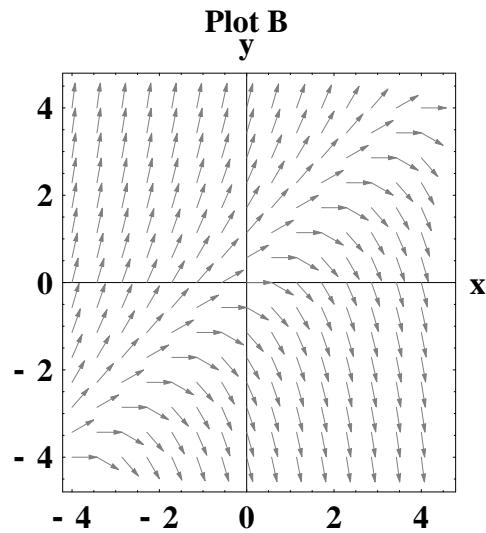
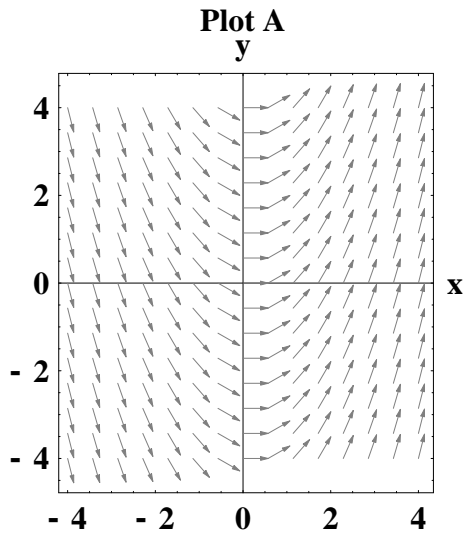
4. $y' = xy^2 + x^2$.

5. $y' = y - x$.

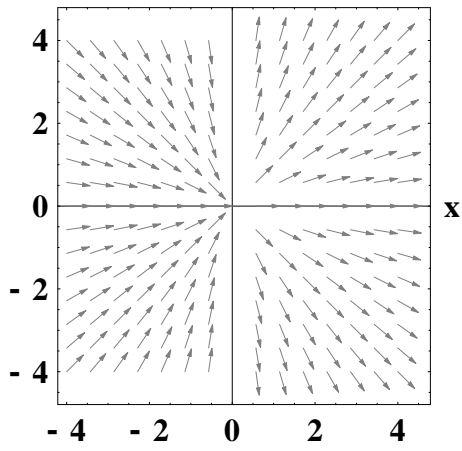
6. $y' = y$.

7. $y' = 2$.

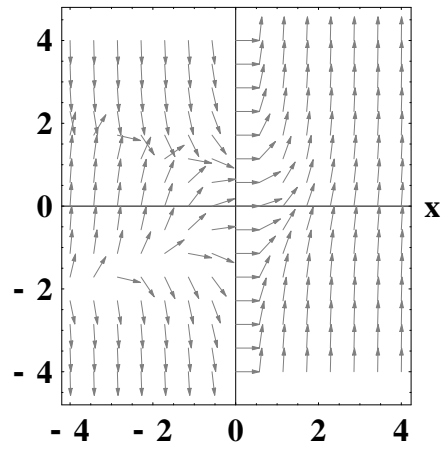
8. $y' = -\frac{x}{y}$.



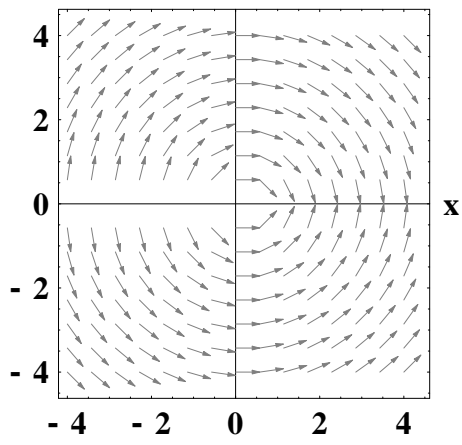
Plot E
y



Plot F
y



Plot G
y



Plot H
y

