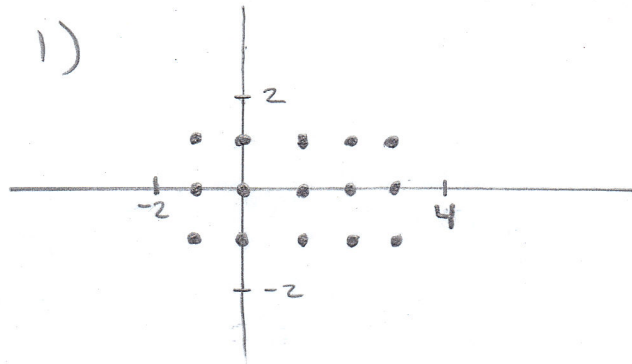


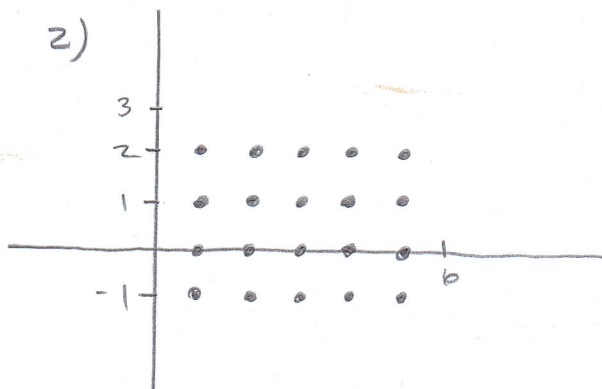
Slope Fields WS 1

Directions: Solve each differential equation for an equation of y in terms of x using the given initial condition. Then draw a slope field for each differential equation using the given coordinate plane.

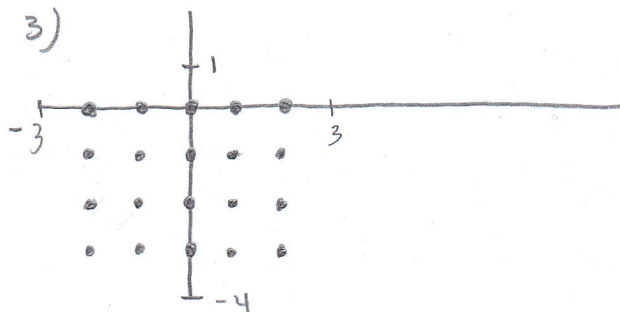
1) $\frac{dy}{dx} = \frac{x}{2}, y(1) = 6$



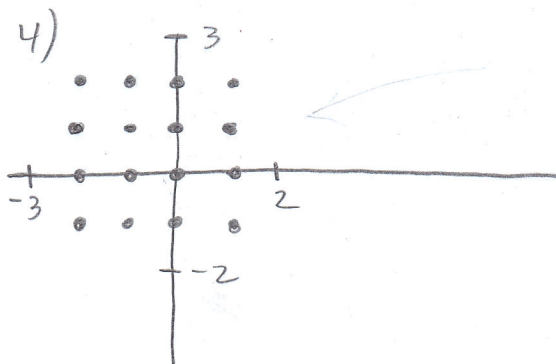
2) $\frac{dy}{dx} = -\frac{x}{y}, y(2) = -4$



3) $\frac{dy}{dx} = x^2y - y, y(3) = 1$



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



5) $\frac{dy}{dx} = \frac{xy}{\ln(y^2)}, y(2) = 1$

make your own graph for #5 with 20 dots.