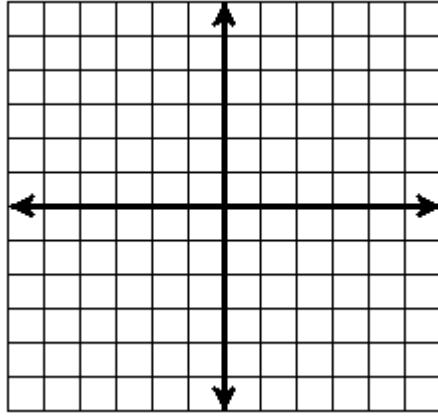
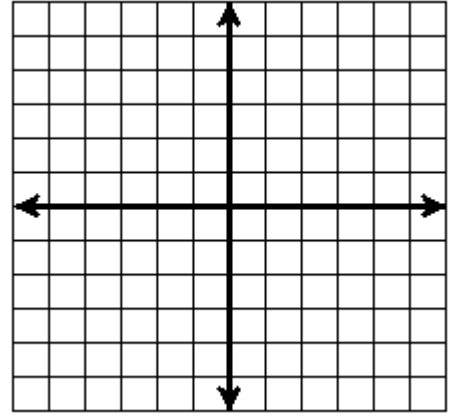


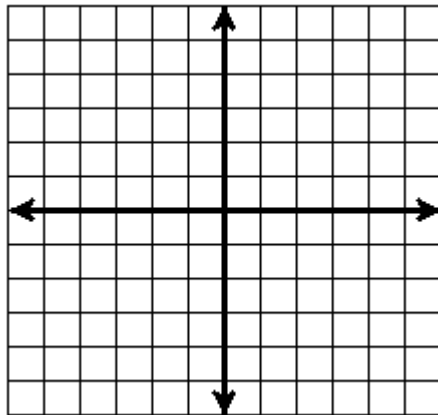
#6: $\frac{dy}{dx} = -xy$



#7: $\frac{dy}{dx} = \frac{2x}{y}$



#8: $\frac{dy}{dx} = y(4-y)$



#9: Go back and organize your slope fields into three groups: {#2}, {#4, 8}, {#3, 5, 6, 7}. Compare these groups. For example, what do graphs in the same group have in common? How are the groups different from each other? Would you expect these things to be true just by looking at the differential equation? Explain how you know.

#10: Your friend claims that solutions to $\frac{dy}{dx} = \frac{6-y}{x}$ will have a horizontal asymptote. Do you agree? Without solving the equation, explain how you know.