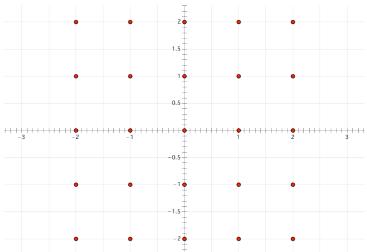
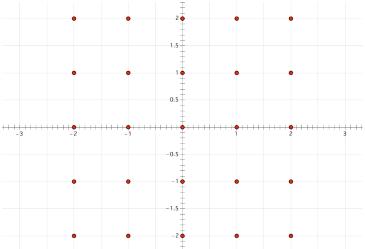
a) Given the differential equation y' = 3x, sketch the slope field on the grid below.



- b) Sketch two possible solutions to the slope field one going through the point (1,1) and the other through the point (0,-2).
- c) Solve for the general solution to the differential equation above.

d) Solve for the particular solution to the differential equation that goes through the point (1,1).

a) Given the differential equation  $y' = -\frac{2x}{3y}$ , sketch the slope field on the grid below.



- b) Sketch two possible solutions to the slope field one going through the point (2,0) and the other through the point  $(1,\sqrt{2})$ .
- c) Solve for the general solution to the differential equation above.

d) Solve for the particular solution to the differential equation that goes through the point  $(1,\sqrt{2})$ .