Functions in Algebra 1:

Linear Functions:

    EQ:  y = mx + b

        Graph:  Line

Absolute Value Functions:

    EQ:  $y = a|x - h| + k$
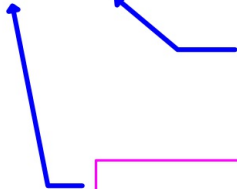
    Graph:  V-Shape

Quadratic Functions:

    EQ:  $y = ax^2 + bx + c$
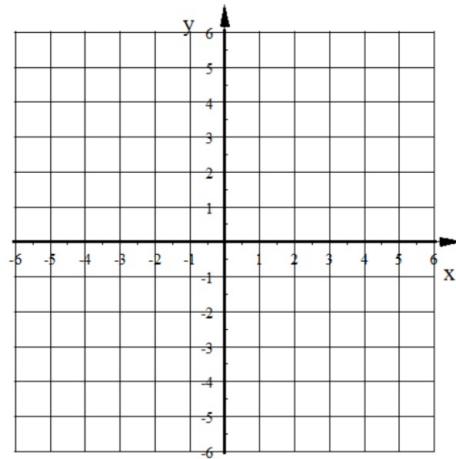        or
        $y = a(x - h)^2 + k$

    Graph:  Parabola

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Sec. 5-3: Graphing Linear Functions
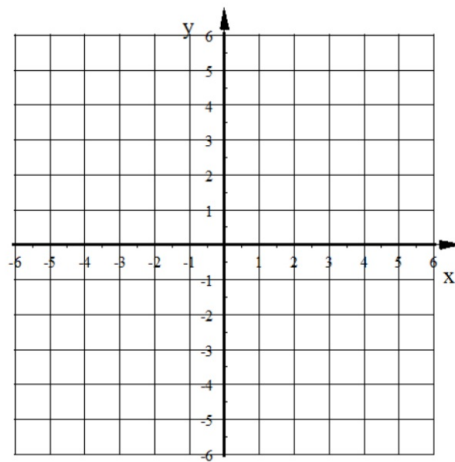
y = mx + b

Graph this line with at least 3 points.
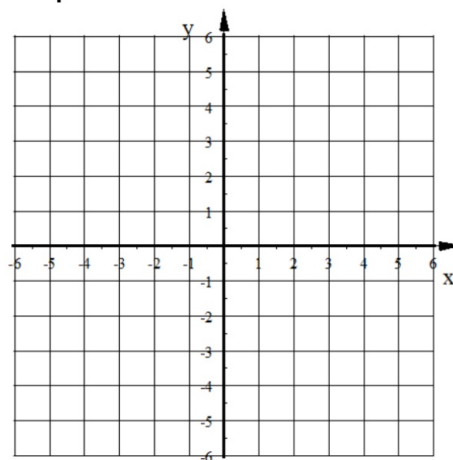
$$f(x) = \frac{1}{3}x - 4$$

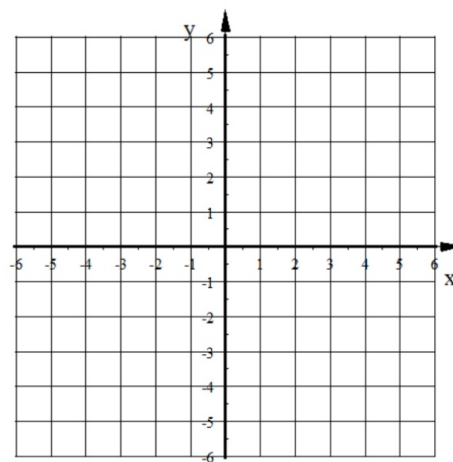Graph this line with at least 3 points.

$$y = -2x + 1$$

Graph this line with at least 3 points.
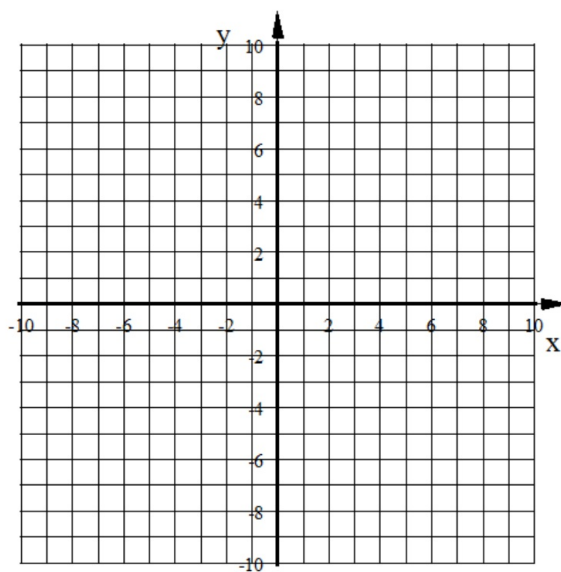
$$y = 3x + 4$$

Graph this line with at least 3 points.
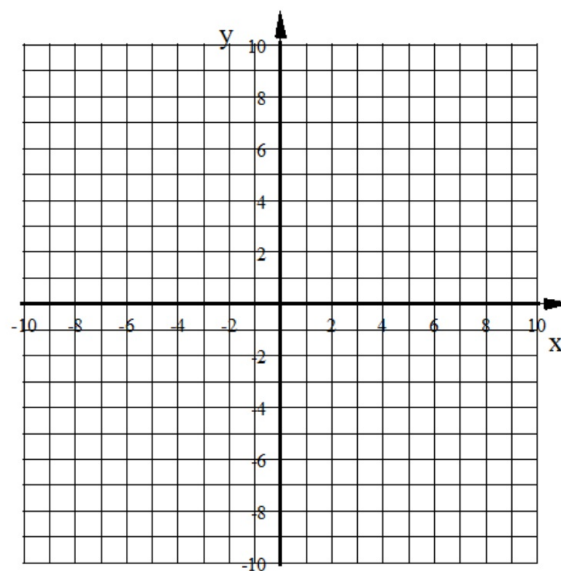
$$y = -x$$

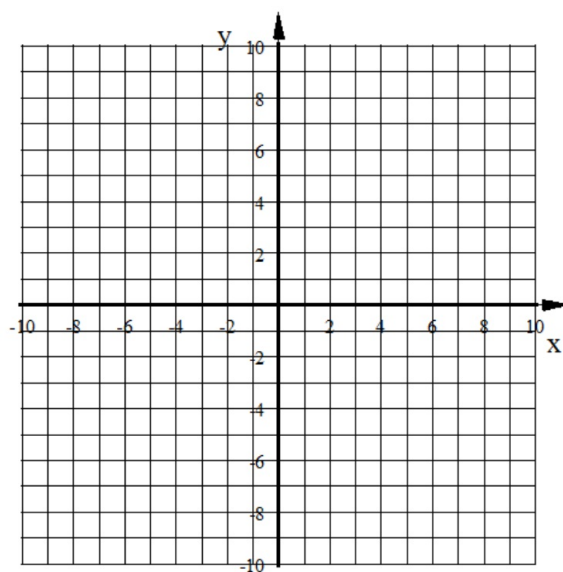Graph this function, use at least 5 points.

$$y = 2x^2 - 6$$

Graph this function, use at least 5 points.
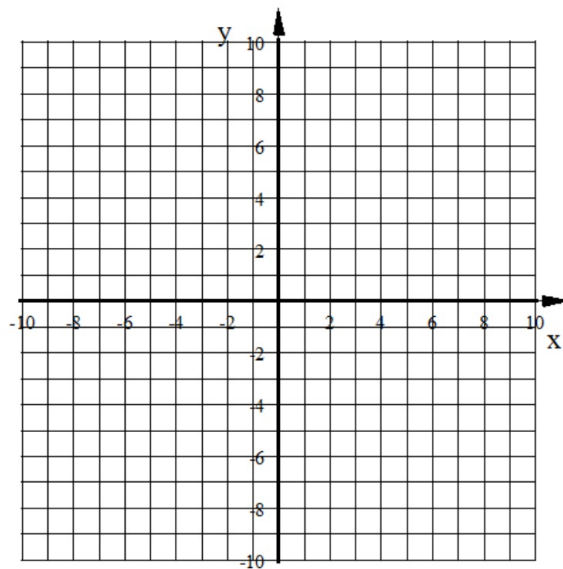
$$y = 3x^2 + 12x + 4$$

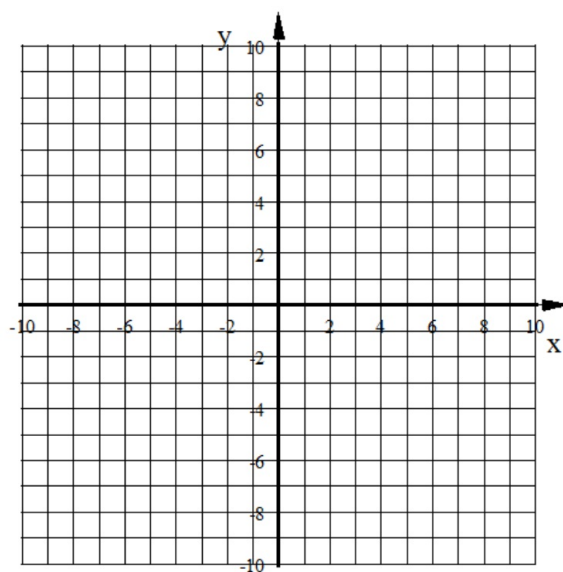Graph this function, use at least 5 points.

$$y = -2(x - 3)^2 + 5$$

Graph this function, use at least 5 points.
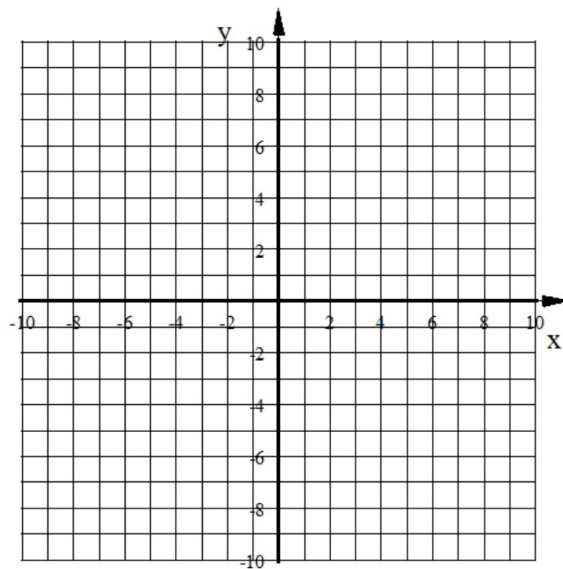
$$f(x) = -2|x| + 7$$

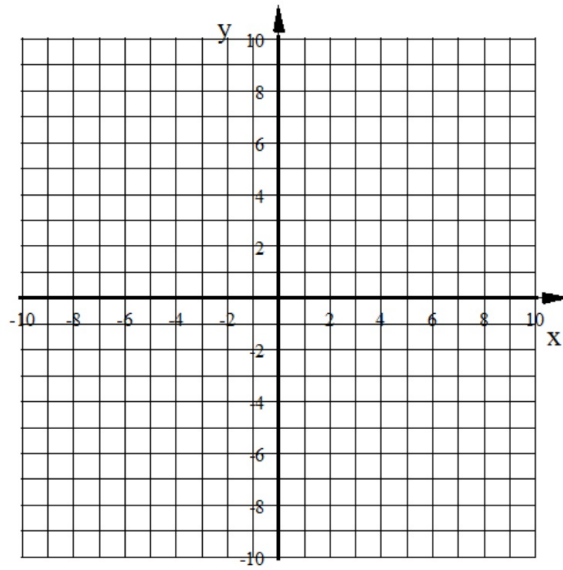Graph this function, use at least 5 points.

$$y = |x - 4| - 5$$



Graph this function, use at least 5 points.

$$y = \frac{1}{2}|x + 1| + 3$$

Graph this function, use at least 5 points.

$$y = -3|x - 3| + 8$$



You can now finish Hwk #28

Sec 5-3

Pages 249-250

Problems 6, 7, 18, 19, 21, 23, 27, 37

IXL #13: Q.5 & Q.7 - due Sunday, Dec. 3rd, 2017!