$$(4x + 5x^2 - 7) + (6x^3 - 3x^2 + 7x + 9)$$

Name:____

$$(5x^2 + 7x - 8) - (3x^2 + 2x - 4)$$

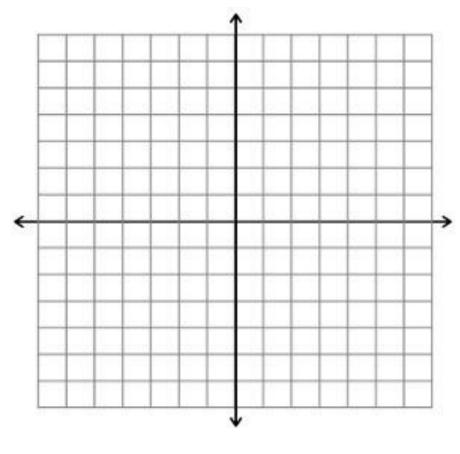
$$(3x + 2)(5x + 3)$$

$$(7x+4)(2x-3)$$

$$(4x + 3)^2$$

Find the following characteristics and graph:

$$y = -2x^2 - 16x - 35$$



Domain:

Range:

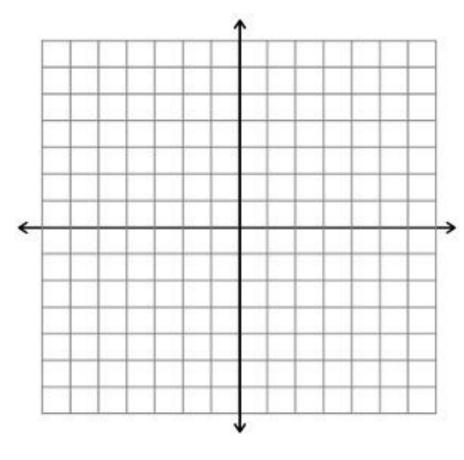
Axis of Symmetry:

Vertex:

y-intercept:

Find the following characteristics and graph:

$$y = (x-4)(x+2)$$



Domain:

Range:

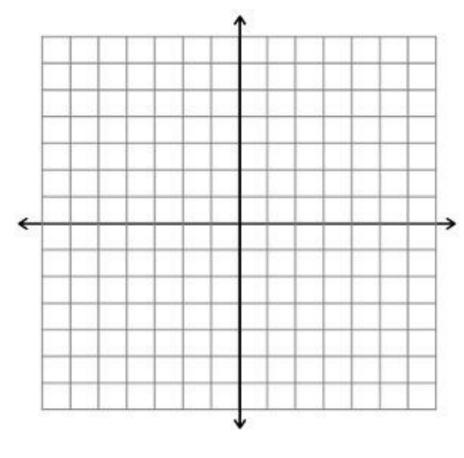
Axis of Symmetry:

Vertex:

y-intercept:

Find the following characteristics and graph:

$$y = -2(x-3)^2 + 4$$



Domain:

Range:

Axis of Symmetry:

Vertex:

y-intercept:

If you did not previously, convert the following to standard form:

$$y = (x-4)(x+6)$$

$$y = -2(x-3)^2 + 4$$