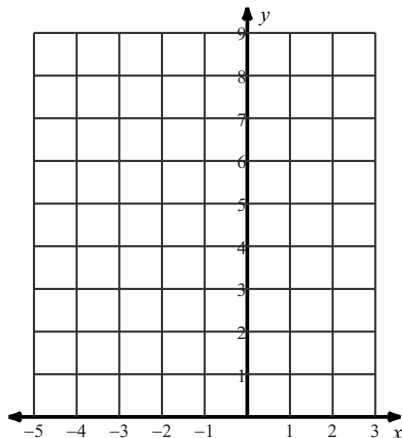


HW 9.7

Date _____ Algebra _____

Sketch the graph of each function.

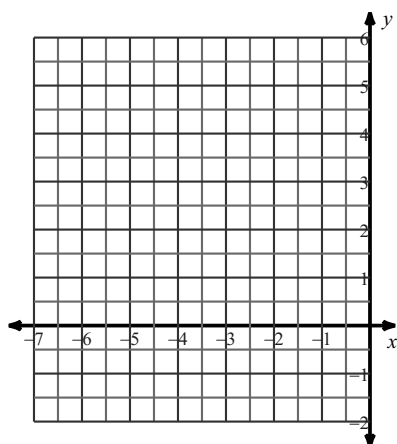
1) $f(x) = x^2 + 2x + 5$



2) Fill in the blanks for the parabola in number one:

when $x=3$, $f(x) =$ _____when $x = -2$, $f(x) =$ _____when $x = -3$, $f(x) =$ _____when $f(x) = 5$, $x =$ _____when $f(x) = 4$, $x =$ _____when $f(x) = 20$, $x =$ _____when $f(x) = 2$, $x =$ _____**Sketch the graph of each function.**

3) $f(x) = -x^2 - 8x - 12$



4) Fill in the following for the parabola in number three:

Vertex: _____

AOS: _____

ROOTS: _____

Find the VERTEX, AOS and ROOTS ALGEBRAICALLY!!!!

5) $y = 2x^2 - 12x + 14$

Solve each equation by factoring.

6) $-4r^2 + 17r + 42 = 4r - 5r^2$

Solve each equation by completing the square.

7) $x^2 + 12x = 28$

Solve each equation with the quadratic formula. Round your answers to the thousandths.

8) $x^2 - 12x = -9$