2.4 Graded Partner Work
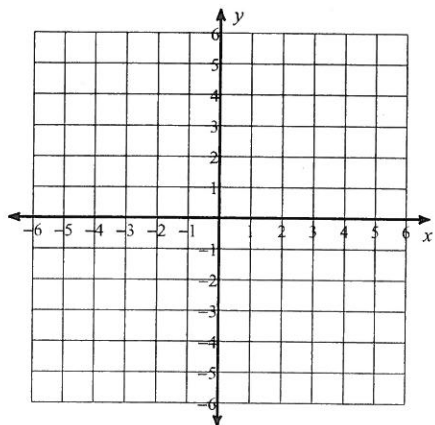
Date_____ Period____

Graph the parent function of each euqation and then graph the transformed function. Describe the transformations used. That is, describe any horizontal shift, vertical shift, reflection over the x-axis, reflection overthe y-axis, stretch or shrink factor, and the units of each. Then state the domain and range of the transformed function.
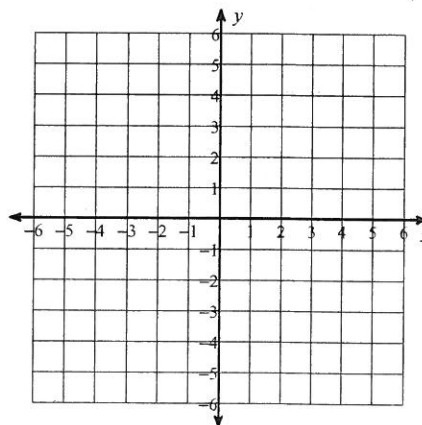
1) $y = 2\left|x - \dfrac{7}{2}\right| + \dfrac{5}{2}$

Parent Function:

Transformations:
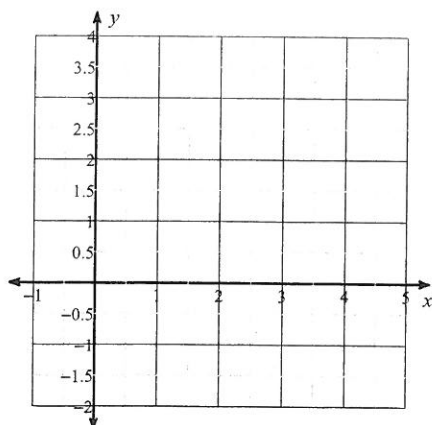
Domain:
Range:

2) $y = -\dfrac{5}{2}x + 3$

Parent Function:

Transformations:
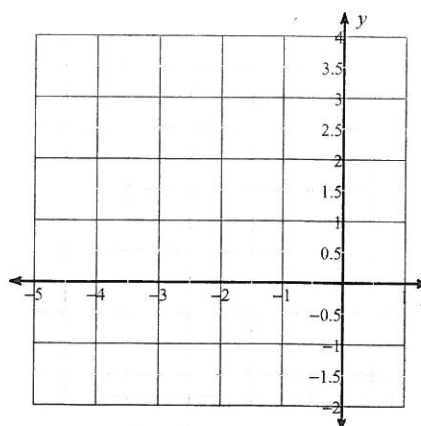
Domain:
Range:

3) $f(x) = (x - 3)^2 - 1$

Parent Function:
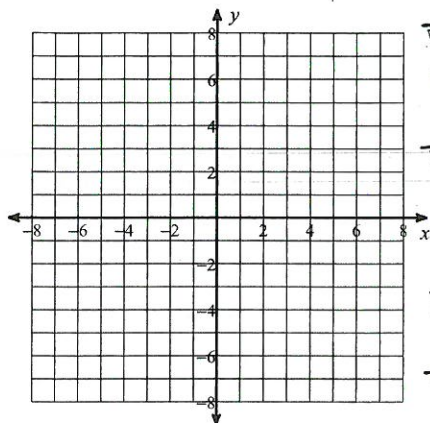
Transformations:

Domain:
Range:

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

Parent Function:

Transformations:

Domain:
Range:
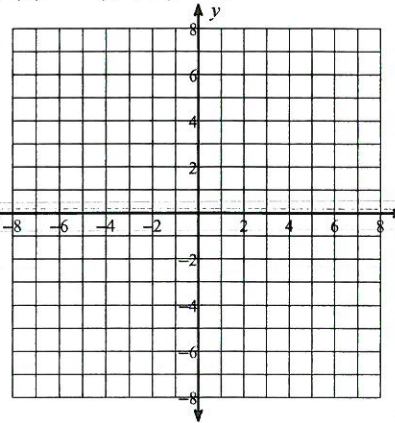
5) $y = -\dfrac{3}{4}\sqrt{x} + 5$

Parent Function:

Transformations:
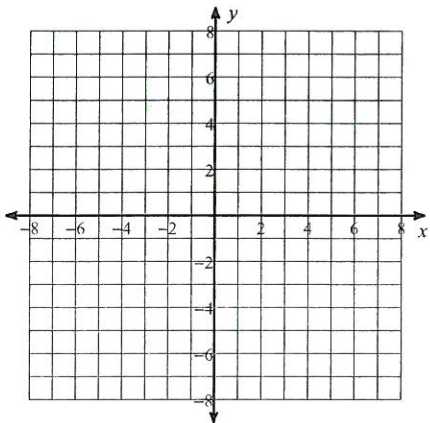
Domain:

Range:

6) $f(x) = -(x+2)^3 - 3$

Parent Function:

Transformations
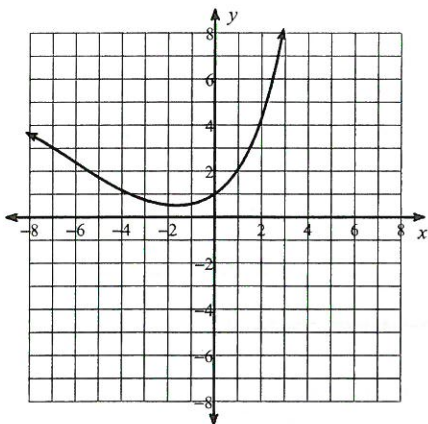
Domain:

Range:

7) $(x-4)^2 + y^2 = 9$

Parent Function:

Transformations:

Domain:

Range:

8) Given the graph of $h(x)$, graph the function $k(x) = -h(x+2) - 3$.
Then state the domain and range of $k(x)$. (You can approximate.)

Transformations:

Domain:

Range: