Benchmarks: B.8- Solve quadratic functions by graphing. B. 9 - Analyze quadratic functions using graphs, tables, \& equations.

Name $\qquad$ Date $\qquad$ Blk $\qquad$
Directions: Answer the following questions.
1.


Vertex:
Min or Max:
$\qquad$

Axis of Symmetry: $\qquad$
Solution(s): $\qquad$

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Min or Max: $\qquad$
Axis of Symmetry: $\qquad$
Solution(s): $\qquad$

Vertex: $\qquad$
Min or Max:
Axis of Symmetry: $\qquad$
Solution(s): $\qquad$
4. Order the following graphs from widest to narrowest.

$$
y=-5 x^{2}, \quad y=\frac{1}{2} x^{2}, \quad y=\frac{-2}{3} x^{2}
$$

5. Order the following graphs from widest to narrowest.

$$
y=-\frac{1}{6} x^{2}, y=\frac{1}{2} x^{2}, y=\frac{2}{5} x^{2}
$$

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Solve the quadratic by graphing.
6. $x^{2}+6 x+9=0$

Solution(s):
7. $2 x^{2}+4 x-6=0$

Solution(s):
8. $\frac{1}{2} x^{2}-x-4=0$

Solution(s): $\qquad$


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Solve the quadratic by graphing. (Make sure you set the equation $=0$ )
9. $x^{2}-6 x=-5$

Solution(s): $\qquad$

10. $x^{2}-3=2 x$

Solution(s): $\qquad$


