Classwork Graphs of Equations

Please work all problems on a separate sheet of paper.
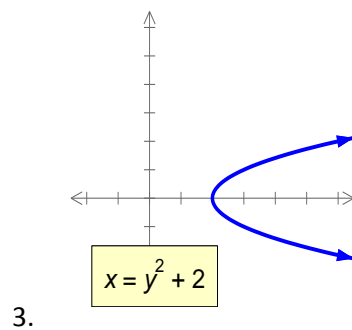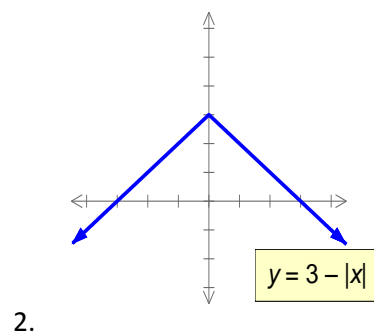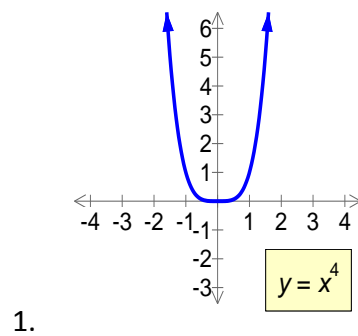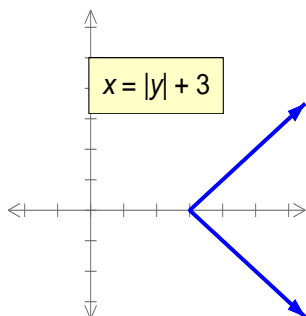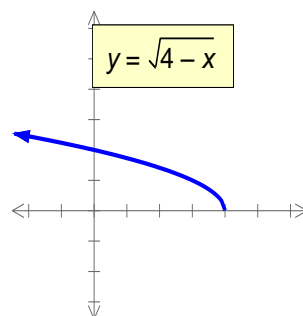
In problems 1 – 12 an equation and its graph is given. Find the intercepts of the graph, and determine whether the graph is symmetric with respect to the x-axis, y-axis, and/or the origin.
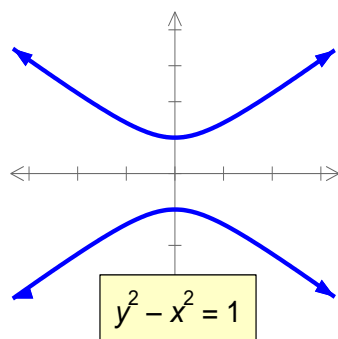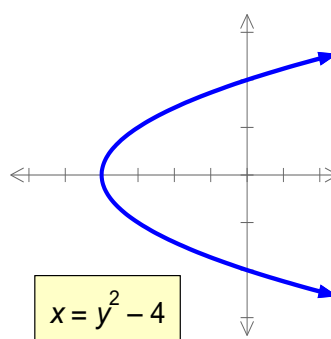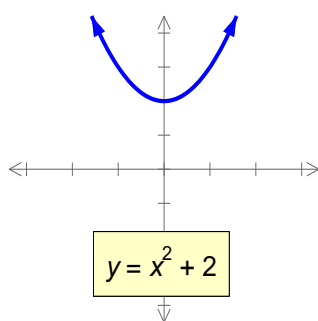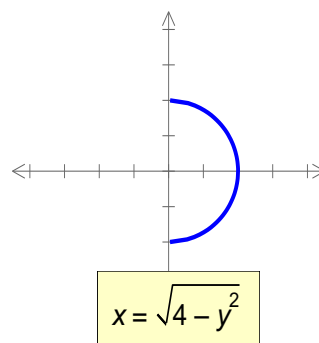

$y = x^4$

1.

$y = 3 - |x|$

2.

$x = y^2 + 2$

3.

$y = 2x$

4.

$4x^2 + 9y^2 = 36$

5.

$y = \dfrac{1}{x}$

6.

$x = |y| + 3$

7.

$y = \sqrt{4 - x}$

8.

$y^2 - x^2 = 1$

9.

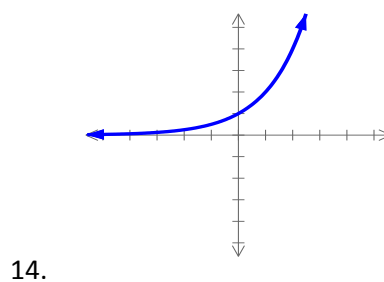$x = y^2 - 4$

10.

$y = x^2 + 2$
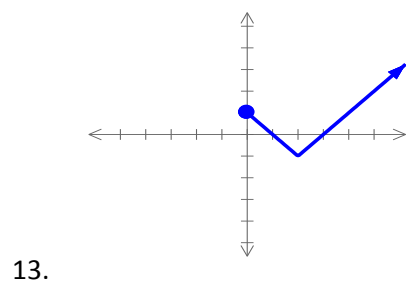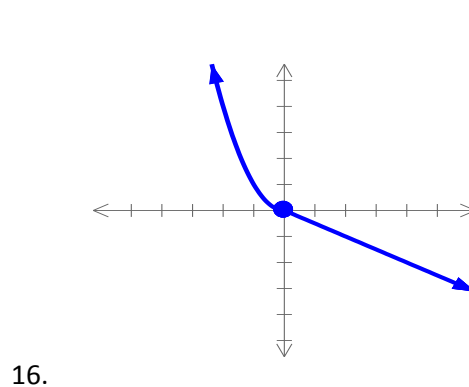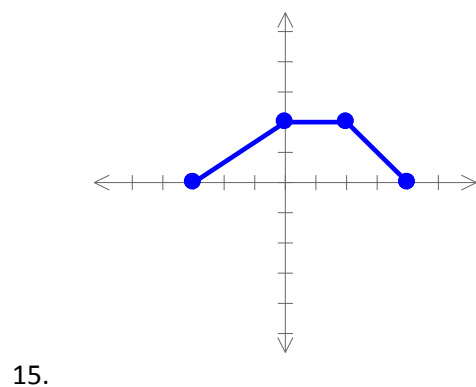
11.

$x = \sqrt{4 - y^2}$
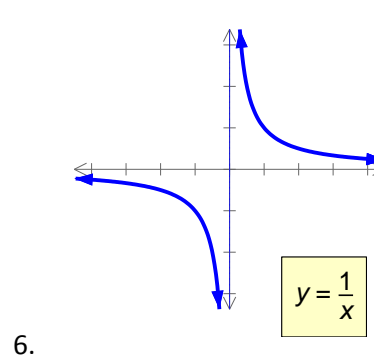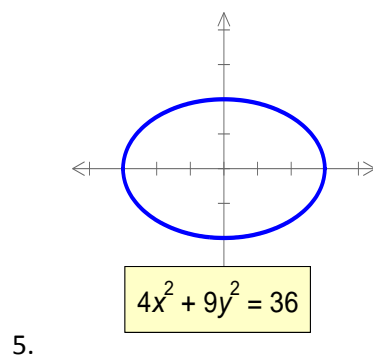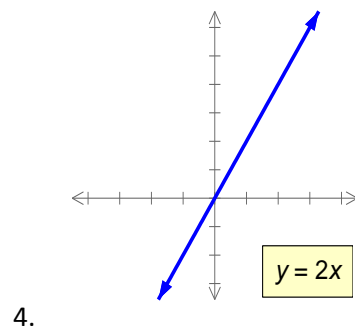
12.

In problems 13 - 14, sketch a graph that is symmetric to the given graph with respect to the y-axis.

13.

14.

In problems 15 - 16, sketch a graph that is symmetric to the given graph with respect to the x-axis.

15.

16.

In problem 17, sketch a graph that is symmetric to the given graph with respect to the origin.

17.