

5.3 A/B Worksheet

Name: _____ Period: _____

Identify values for “a”, “b”, and “c”. Find the discriminant of the quadratic equation. Then identify how many solutions and what type of solutions the discriminant will give.

1. $x^2 - 2x + 1 = 0$

2. $4x^2 + 12x + 9 = 0$

Discriminant: _____

Number of solutions: _____

Type of solutions: _____

Discriminant: _____

Number of solutions: _____

Type of solutions: _____

3. $x^2 + 4 = 3$

4. $x^2 - 14 = 15x$

Discriminant: _____

Number of solutions: _____

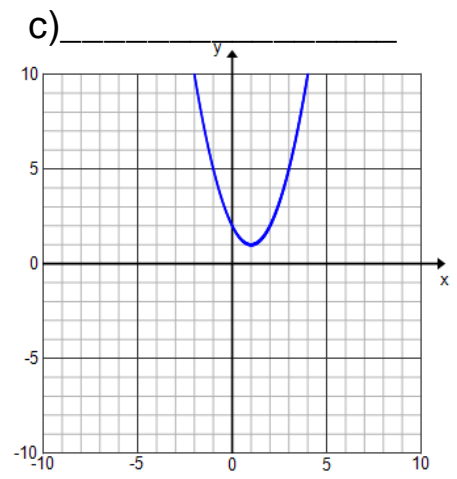
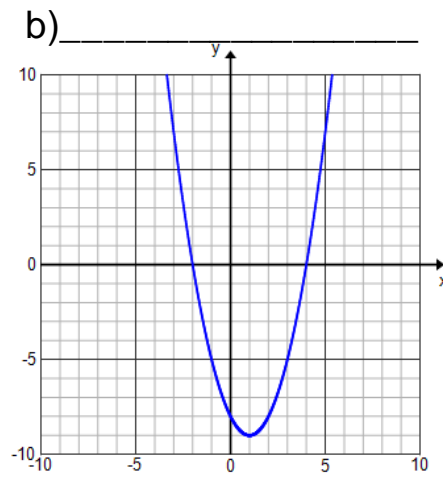
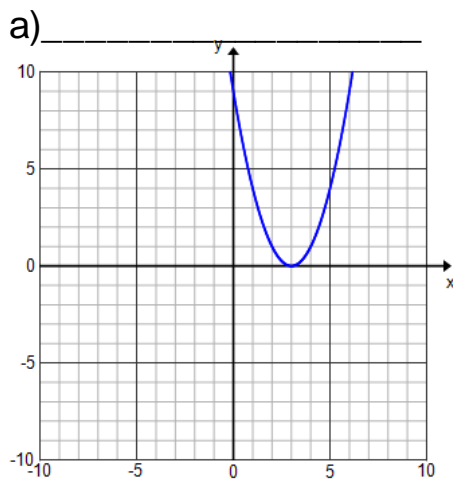
Type of solutions: _____

Discriminant: _____

Number of solutions: _____

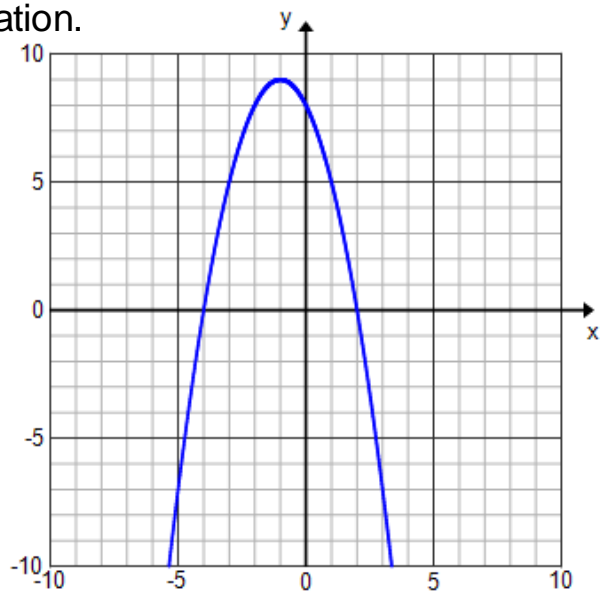
Type of solutions: _____

5. Label each graph below as having a positive, negative, or zero discriminant.



For problems 6-9, find the discriminant, number and type of solutions, and the possible equation.

6.



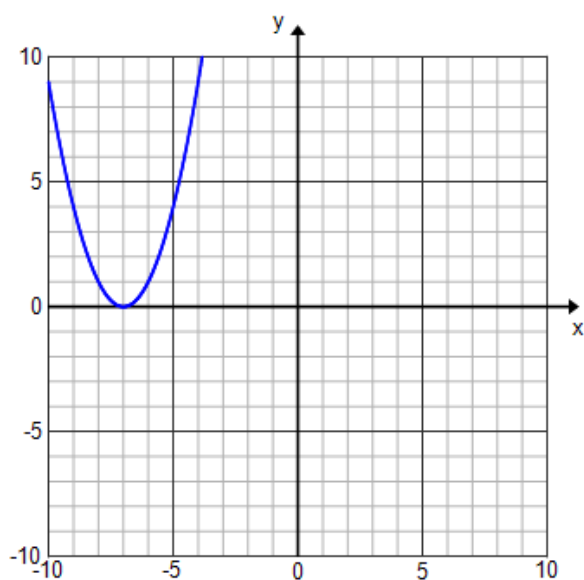
Discriminant: _____

Number of solutions: _____

Type of solutions: _____

Possible Equation: _____

8.



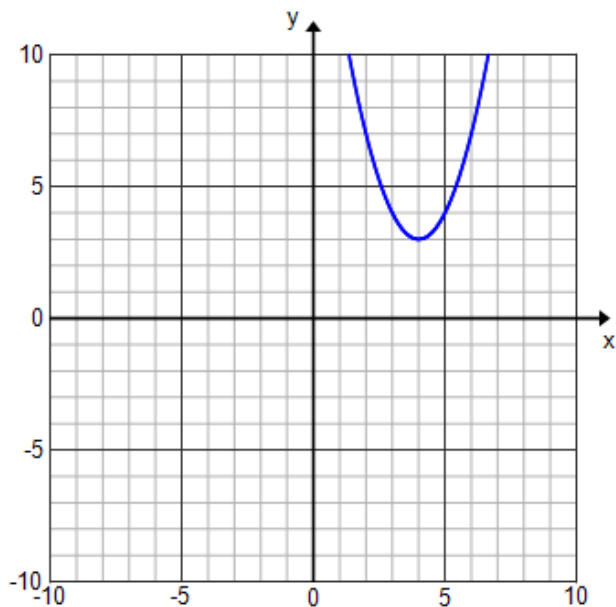
Discriminant: _____

Number of solutions: _____

Type of solutions: _____

Possible Equation: _____

7.



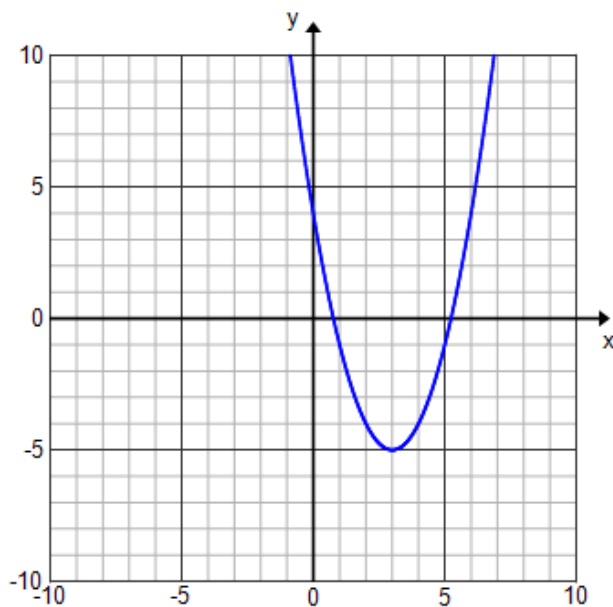
Discriminant: _____

Number of solutions: _____

Type of solutions: _____

Possible Equation: _____

9.



Discriminant: _____

Number of solutions: _____

Type of solutions: _____

Possible Equation: _____