

Corrective Assignment

NAME: _____

DATE: _____

Find the discriminant. How many solutions and what type?

1. $-10n^2 + b - 6 = 0$

2. $-b^2 - 4b - 4 = 0$

3. $10n^2 + 9n - 4 = 3$

4. $4r^2 - 4r - 3 = -6$

5. $10a^2 = -8a$

6. $2b^2 - 18b + 7 = -10b - 1$

Solve using the quadratic formula.

7. $2x^2 + 11x + 9 = 0$

8. $6x^2 - 9x = 12$

9. $2x^2 + 2x + 10 = 5$

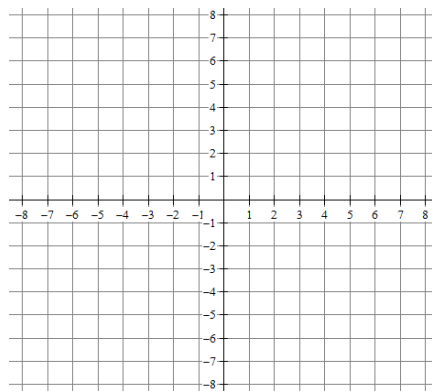
10. $7x^2 + 10 = 12x$

11. $2x^2 - 9 = 6x + 1$

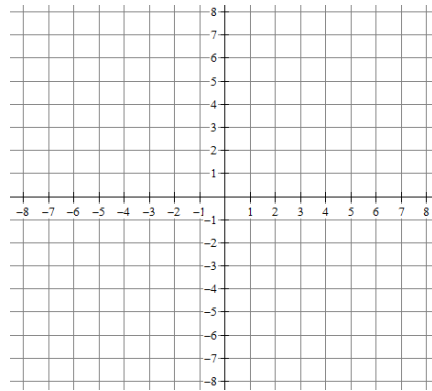
12. $9x^2 - 6x - 3 = 18x - 19$

Solve using the quadratic formula. Check your solution by graphing. Label the vertex and the root(s).

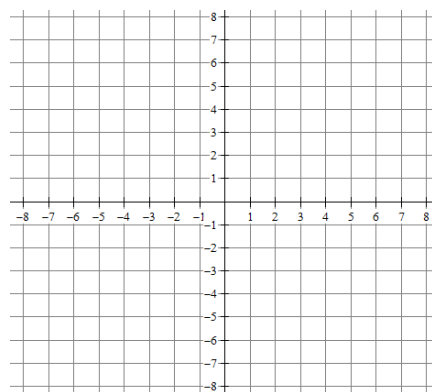
13. $0 = x^2 - 2x - 2$



14. $-\frac{1}{2}x^2 + 4x - 7 = 0$



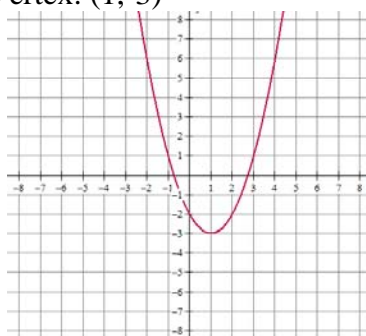
15. $-x^2 + 4x - 1 = 0$



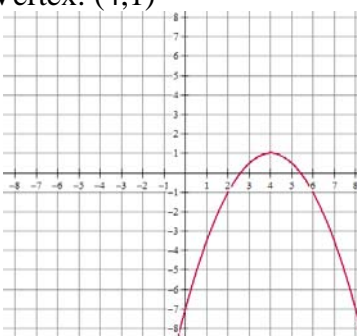
ANSWERS TO CORRECTIVE ASSIGNMENT 6.4

1. -239, 2 imaginary solutions	2. 0, 1 real solution	3. 361, 2 real solutions	4. -32, 2 imaginary solutions
5. 64, 2 real solutions	6. 0, 1 real solution	7. $x = -1, -\frac{9}{2}$	8. $x = \frac{3 \pm \sqrt{41}}{4}$
9. $x = \frac{-1 \pm 3i}{2}$	10. $x = \frac{6 \pm i\sqrt{34}}{7}$	11. $x = \frac{3 \pm \sqrt{29}}{2}$	12. $x = \frac{4}{3}$

13. $x = 1 \pm \sqrt{3} = -0.73, 2.73$
Vertex: (1,-3)



14. $x = 4 \pm \sqrt{2} = 2.59, 5.41$
Vertex: (4,1)



15. $x = 2 \pm \sqrt{3} = 0.27, 3.73$
Vertex: (2,3)

