

## Covid Distance Learning Day 2

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation with the quadratic formula.**

1)  $2x^2 - 14 = 2x$

2)  $5r^2 = 23 + 11r$

3)  $3x^2 + 11 = -8x$

4)  $x^2 = -10x - 21$

5)  $11x^2 = 20$

6)  $10b^2 = 17 - 6b$

7)  $9n^2 - 3 = 5n$

8)  $b^2 - 2 = -7b$

9)  $2x^2 + 7x = -6$

10)  $8r^2 - 10 = 12r$

**Solve each equation by completing the square.**

11)  $x^2 - 2x - 17 = -5$

12)  $n^2 + 6n - 16 = -9$

13)  $n^2 - 18n + 63 = -8$

14)  $x^2 + 12x - 43 = 9$

15)  $r^2 + 6r - 17 = 9$

16)  $k^2 - 20k - 31 = -10$

17)  $k^2 + 10k - 46 = -7$

18)  $x^2 + 14x - 12 = 2$

19)  $x^2 + 4x - 75 = 10$

20)  $n^2 - 20n + 22 = 3$