

Name \_\_\_\_\_ Block \_\_\_\_\_

Solve by taking the square roots. Simplify as needed.

1)  $x^2 - 121 = 0$

2)  $2x^2 - 128 = 0$

3)  $3x^2 - 51 = 0$

4)  $5x^2 - 65 = 0$

5)  $3x^2 - 32 = 40$

6)  $6x^2 - 100 = 92$

7)  $4x^2 - 3 = 0$

8)  $9x^2 + 7 = 24$

9)  $16x^2 - 27 = 0$

Solve using the quadratic formula.

10)  $x^2 - 2x - 8 = 0$

11)  $-2x^2 + 3x - 1 = 0$

12)  $2x^2 - x - 2 = 0$

13)  $3x^2 + 5x + 1 = 0$

14)  $x^2 + 2x - 2 = 0$

15)  $2x^2 + 10x - 5 = 0$

How many solutions? Use the Discriminant  $b^2 - 4ac$

16)  $x^2 + 6x + 10 = 0$

17)  $x^2 + 8x + 16 = 0$

18)  $3x^2 - 5x = -2$

19)  $x^2 - 4x = -4$

20)  $3x^2 + 1 = 6x$

21)  $15x^2 + 16 = -2x$