Math 2   Name_____

Unit 4.4 Solve by taking Square Root Practice

Period_____

Solve each equation by taking square roots.

1) $n^2 = 0$

$\{0\}$

2) $x^2 = 4$

$\{2, -2\}$

3) $x^2 + 4 = 85$

$\{9, -9\}$

4) $5m^2 = 410$

$\left\{\sqrt{82}, -\sqrt{82}\right\}$

5) $81k^2 = 64$

$\left\{\dfrac{8}{9}, -\dfrac{8}{9}\right\}$

6) $-4v^2 = -168$

$\left\{\sqrt{42}, -\sqrt{42}\right\}$

7) $n^2 + 4 = 20$

$\{4, -4\}$

8) $2x^2 = 32$

$\{4, -4\}$

9) $-7n^2 = -553$

$\{\sqrt{79}, -\sqrt{79}\}$

10) $r^2 + 1 = 1$

$\{0\}$

11) $7x^2 - 5 = 268$

$\{\sqrt{39}, -\sqrt{39}\}$

12) $7a^2 - 8 = 111$

$\{\sqrt{17}, -\sqrt{17}\}$

13) $10x^2 + 7 = 607$

$\{2\sqrt{15}, -2\sqrt{15}\}$

14) $81n^2 + 8 = 89$

$\{1, -1\}$

15) $7x^2 + 10 = 101$

$\{\sqrt{13}, -\sqrt{13}\}$

16) $-9 - 9x^2 = -846$

$\{\sqrt{93}, -\sqrt{93}\}$

17) $4x^2 - 8 = 1$

$\left\{\frac{3}{2}, -\frac{3}{2}\right\}$

18) $2 + 36n^2 = 38$

$\{1, -1\}$