

## Assignment

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

**Solve each equation.**

1)  $17v^2 + 1 = -680$

2)  $10k^2 + 10 = -194$

3)  $10r^2 + 15 = 655$

4)  $6b^2 - 19 = 1715$

5)  $41x^2 + 119x - 84 = 6x^2$

6)  $7a^2 + 29a + 2 = -2$

7)  $p^2 - 6 = 5p$

8)  $n^2 + 5n = 14$

9)  $(x - 1)(x - 5) = 0$

10)  $(4v + 5)(v + 3) = 0$

11)  $-5p = -2 - 8p^2 + 2p$

12)  $-10x^2 + 5x + 2 = 5$

13)  $5n^2 - 9 = -8$

14)  $-9b^2 + 5b + 12 = 5$

15)  $2b^2 - 6b + 6 = 10$

16)  $3x^2 - 18 = -9$

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

**Solve each equation.**

1)  $17v^2 + 1 = -680$   $\left\{ \frac{i\sqrt{11577}}{17}, -\frac{i\sqrt{11577}}{17} \right\}$

3)  $10r^2 + 15 = 655$   
 $\{8, -8\}$

5)  $41x^2 + 119x - 84 = 6x^2$   
 $\left\{ \frac{3}{5}, -4 \right\}$

7)  $p^2 - 6 = 5p$   
 $\{-1, 6\}$

9)  $(x - 1)(x - 5) = 0$   
 $\{1, 5\}$

11)  $-5p = -2 - 8p^2 + 2p$   
 $\left\{ \frac{7+i\sqrt{15}}{16}, \frac{7-i\sqrt{15}}{16} \right\}$

13)  $5n^2 - 9 = -8$   
 $\left\{ \frac{\sqrt{5}}{5}, -\frac{\sqrt{5}}{5} \right\}$

15)  $2b^2 - 6b + 6 = 10$   
 $\left\{ \frac{3+\sqrt{17}}{2}, \frac{3-\sqrt{17}}{2} \right\}$

2)  $10k^2 + 10 = -194$   $\left\{ \frac{i\sqrt{510}}{5}, -\frac{i\sqrt{510}}{5} \right\}$

4)  $6b^2 - 19 = 1715$   
 $\{17, -17\}$

6)  $7a^2 + 29a + 2 = -2$   
 $\left\{ -\frac{1}{7}, -4 \right\}$

8)  $n^2 + 5n = 14$   
 $\{-7, 2\}$

10)  $(4v + 5)(v + 3) = 0$   
 $\left\{ -\frac{5}{4}, -3 \right\}$

12)  $-10x^2 + 5x + 2 = 5$   
 $\left\{ \frac{5-i\sqrt{95}}{20}, \frac{5+i\sqrt{95}}{20} \right\}$

14)  $-9b^2 + 5b + 12 = 5$   
 $\left\{ \frac{5-\sqrt{277}}{18}, \frac{5+\sqrt{277}}{18} \right\}$

16)  $3x^2 - 18 = -9$   
 $\{\sqrt{3}, -\sqrt{3}\}$