

Name \_\_\_\_\_ Date \_\_\_\_\_ Pd \_\_\_\_\_

Alg2 Homework

Solve by any method (Factoring, square roots, or quadratic formula).

1.  $2x^2 - x = 1$

2.  $5x^2 + 2 = 11x$

3.  $3x^2 = 60$

4.  $x^2 - 2x = 1$

5.  $(2x + 3)(x + 4) = 1$

6.  $(x + 3)^2 - 8 = -16$

7.  $3x^2 - 12x + 12 = 0$

8.  $4x^2 - 16 = 0$

9.  $x^2 - 6x + 13 = 0$

10.  $3(x - 1)^2 + 5 = -13$

11.  $2x^2 - 7x = 0$

12.  $x^2 = 4x - 7$

ANSWERS

1.  $-1/2, 1$

2.  $1/5, 2$

3.  $\pm 2\sqrt{5}$

4.  $1 \pm \sqrt{2}$

5.  $\frac{-11 \pm \sqrt{33}}{4}$

6.  $-3 \pm 2i\sqrt{2}$

7.  $2$

8.  $-2, 2$

9.  $3 \pm 2i$

10.  $1 \pm i\sqrt{6}$

11.  $0, 7/2$

12.  $2 \pm i\sqrt{3}$