

Assignment

Date _____ Period _____

Solve each equation by factoring.

1) $r^2 + 7r = 0$

$$x = 7$$
$$x = 0$$

3) $8x^2 - 5x = 0$

$$x = 5/8$$
$$x = 0$$

5) $3n^2 - 15n = 0$

$$x = 5$$
$$x = 0$$

7) $3a^2 - 18a - 21 = 0$

$$x = -1$$
$$x = 7$$

9) $25x^2 - 9 = 0$

$$x = \pm 3/5$$

11) $n^2 - 4 = 0$

$$x = \pm 2$$

13) $8a^3 + 27 = 0$

$$x = -3/2$$

$$x = \frac{3 \pm 3i\sqrt{3}}{4}$$

15) $8u^3 - 27 = 0$

$$x = 3/2$$

$$x = \frac{-3 \pm 3i\sqrt{3}}{4}$$

2) $x^2 + 13x + 40 = 0$

$$x = -5$$
$$x = -8$$

4) $7n^2 + 8n - 12 = 0$

$$x = 6/7$$
$$x = -2$$

6) $8n^2 - 16n - 280 = 0$

$$x = 7$$
$$x = -5$$

8) $7v^2 + 7v - 84 = 0$

$$x = 3$$
$$x = -4$$

10) $25x^2 - 16 = 0$

$$x = \pm 4/5$$

12) $-125m^3 + 27 = 0$

$$x = 3/5$$

$$x = \frac{-3 \pm 3i\sqrt{3}}{10}$$

14) $125x^3 + 27 = 0$

$$x = -3/5$$

$$x = \frac{3 \pm 3i\sqrt{3}}{10}$$