

Solve each equation by factoring.

1) $a^2 + 21 = 10a$

2) $n^2 - 2n = 48$

3) $n^2 = -3 - 4n$

4) $k^2 - 14k = -48$

5) $a^2 + 12 = -8a$

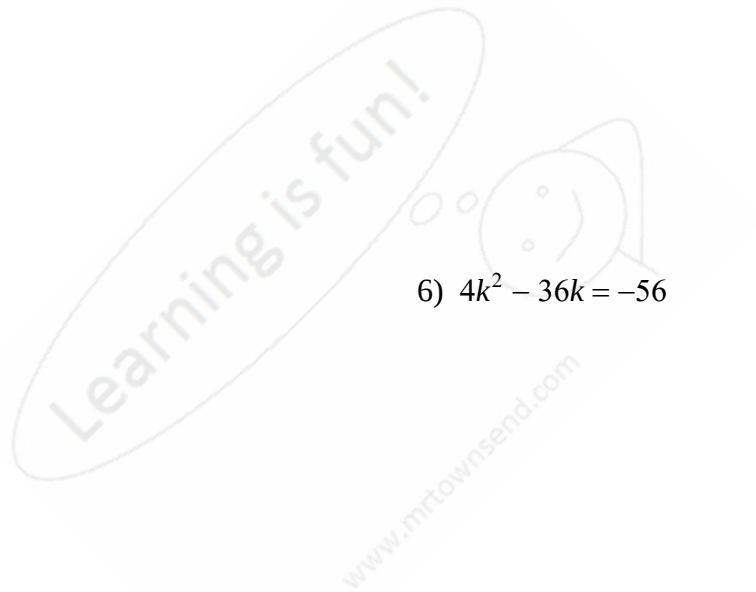
6) $4k^2 - 36k = -56$

7) $5v^2 = -15v$

8) $p^2 + p = 6$

9) $n^2 - 12n = -36$

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



$$11) m^2 - 6 = -5m$$

$$12) 3r^2 + 27 = 18r$$

$$13) 5x^2 - 210 = 5x$$

$$14) r^2 + 7r = 8$$

$$15) 4x^2 + 32 = -24x$$

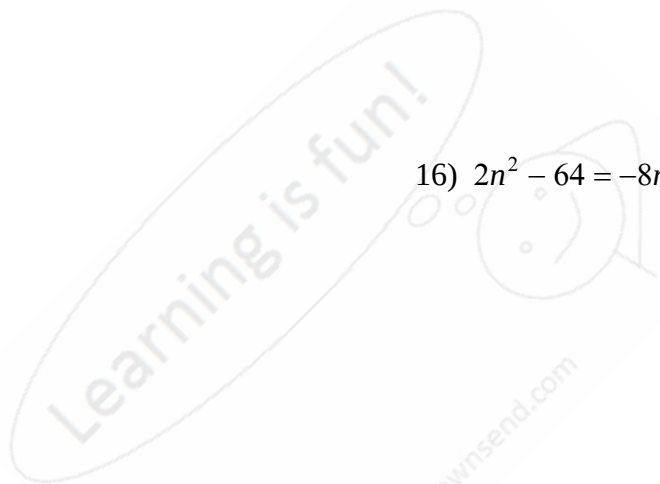
$$16) 2n^2 - 64 = -8n$$

$$17) n^2 - 8 = -7n$$

$$18) p^2 + 6p = 0$$

$$19) k^2 = k$$

$$20) x^2 + 8x = -7$$



Answers to

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|-----------------|-----------------|------------------|------------------|
| 1) $\{7, 3\}$ | 2) $\{8, -6\}$ | 3) $\{-1, -3\}$ | 4) $\{6, 8\}$ |
| 5) $\{-6, -2\}$ | 6) $\{2, 7\}$ | 7) $\{-3, 0\}$ | 8) $\{2, -3\}$ |
| 9) $\{6\}$ | 10) $\{5, -2\}$ | 11) $\{-6, 1\}$ | 12) $\{3\}$ |
| 13) $\{-6, 7\}$ | 14) $\{1, -8\}$ | 15) $\{-2, -4\}$ | 16) $\{4, -8\}$ |
| 17) $\{-8, 1\}$ | 18) $\{-6, 0\}$ | 19) $\{1, 0\}$ | 20) $\{-7, -1\}$ |

