

1.6 Solve by Factoring

Date _____ Period _____

Solve each equation by factoring.

1) $r^2 + 6r = 0$

2) $x^2 + 8x + 15 = 0$

3) $k^2 - 13k + 40 = 0$

4) $p^2 - 6p = 0$

5) $x^2 + 2x - 24 = 0$

6) $v^2 - v - 6 = 0$

7) $3x^2 + 10x - 8 = 0$

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

9) $2v^2 - v - 6 = 0$

10) $7x^2 + 30x + 8 = 0$

11) $x^2 - 16 = 0$

12) $x^2 - 4 = 0$

Solve each equation by factoring. (Factor out GCF)

13) $5b^2 + 5b - 10 = 0$

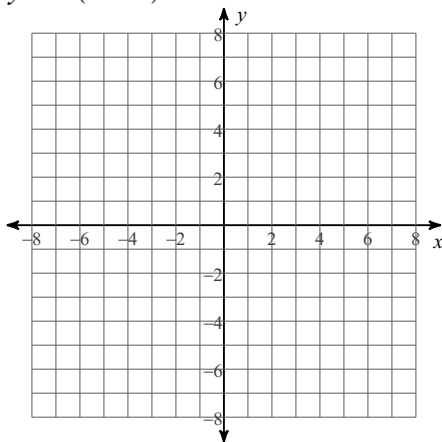
14) $5p^2 + 10p - 240 = 0$

15) $4x^2 - 10x - 50 = 0$

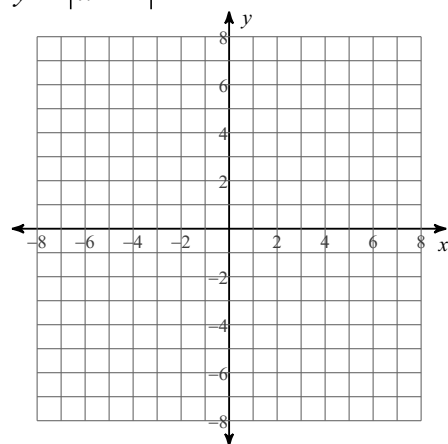
16) $20m^2 + 32m + 12 = 0$

Given the equation, graph the transformation.

17) $y = -(x + 3)^2 - 3$



18) $y = |x - 2| + 1$



19) $y = \sqrt{x + 4} - 5$

