

Roots and Factors 1&2 Solutions

1 Roots and Factors 1

1. $y = x^2 - x - 6$
2. $y = x^2 - x - 12$
3. $y = 2x^2 + 12x + 16$
4. $y = 3x^2 - 18x + 15$
5. $y = 3x^2 - 5x - 2$
6. $y = 2x^2 + 5x - 3$
7. $y = x^2 - 9$
8. $y = 2x^2 - 4x$
9. $y = x^2 + 2x + 1$
10. $y = -x^2 + x + 12$
11. $y = -2x^2 + 12x - 10$
12. $y = -x^2 - 4x - 4$
13. $y = 4x^2 - 24x + 36$
14. $y = -x^2 - 1x$

2 Roots and Factors 2

1. $y = -3x^2 + 27$
2. $y = x^3 - 3x^2 - 1x + 3$
3. $y = 2x^3 + 6x^2 - 12x - 16$
4. $y = x^3 - 2x^2 - 3x$
5. $y = 2x^3 - 11x^2 + 12x + 9$
6. $y = 5x^3 - 20x^2 - 20x + 80$

$$7. \ y = -3x^3 + 7x^2 + 6x$$

$$8. \ y = -2x^3 - 8x^2 - 8x$$

$$9. \ y = 9x^3 - 60x^2 + 105x - 54$$