

Math C

7.3 Practice Problems

State the vertex and range of a quadratic function.

1. $y = x(x - 3) + 5(x - 3)$

2. $y = x(x + 5) - 7(x + 5)$

3. $y = x(x + 6) + 10(x + 6)$

4. $y = x(x - 7) - (x - 7)$

5. $y = 2x(x - 8) + 4(x - 8)$

6. $y = 3x(x + 7) - 9(x + 7)$

7. $y = 4x(x - 9) - 12(x - 9)$

8. $y = 5x(x + 12) + 20(x + 12)$

9. $y = 3x(4x + 8) - 12(4x + 8)$

10. $y = 2x(5x - 15) + 14(5x - 15)$

11. $y = 3x(4x - 12) - 15(4x - 12)$

12. $y = 5x(2x + 6) + 15(2x + 6)$