

Pre-Calculus

Section 2.1

Rewrite each quadratic function into vertex form. State the horizontal and vertical shifts of the given function.

1. $f(x) = x^2 - 8x + 19$

2. $f(x) = x^2 + 4x - 15$

3. $f(x) = x^2 - 12x + 30$

4. $f(x) = x^2 + 10x - 24$

5. $f(x) = x^2 - 18x - 11$

6. $f(x) = x^2 - 14x - 1$

7. $f(x) = x^2 + 2x + 7$

8. $f(x) = x^2 + 16x + 20$

9. $f(x) = 2x^2 + 16x - 9$

10. $f(x) = 2x^2 - 24x + 11$

11. $f(x) = 2x^2 - 8x + 25$

12. $f(x) = 2x^2 + 36x - 99$

13. $f(x) = 3x^2 + 18x - 40$

14. $f(x) = 3x^2 - 12x + 16$

15. $f(x) = 3x^2 - 6x + 20$

16. $f(x) = 3x^2 + 24x - 35$