

1.9 Completing the Square

Use the technique we practiced to change from standard form to vertex form and identify the vertex of each parabola **WITHOUT** graphing.

1. $f(x) = x^2 + 2x - 48$

2. $f(x) = x^2 - 10x - 56$

3. $f(x) = x^2 + 2x - 57$

4. $f(x) = x^2 + 8x + 12$

5. $f(x) = x^2 + 12x - 6$

6. $f(x) = 7x^2 + 14x - 21$

7. $f(x) = 2x^2 + 8x - 64$

8. $f(x) = 10x^2 - 20x - 87$

9. $f(x) = 9x^2 + 18x + 42$

10. $f(x) = 3x^2 + 18x + 48$