

Write each quadratic function in vertex form by completing the square. Then, identify the vertex.

Recall -- Vertex form: _____ where the vertex is _____.

Ex: $y = x^2 - 10x + 22$

Ex: $f(x) = x^2 - 9x + 19$

Ex: $f(x) = 2x^2 + 4x - 8$

Ex: $y = -5x^2 + -40x - 80$

13. $y = x^2 - 8x + 19$

14. $f(x) = x^2 - 4x - 1$

15. $f(x) = x^2 - 3x + 4$

16. $g(x) = x^2 + 7x + 2$

17. $y = 2x^2 + 24x + 25$

18. $y = 5x^2 + 10x + 7$

19. $f(x) = 2x^2 - 28x + 99$

20. $f(x) = x^2 - 8x + 13$