



Quadratic Equation Standard Form to Vertex (Coefficient N)

1 Complete the square and convert this to vertex form to find the vertex

$$y = 4x^2 - 32x + 65$$

A (-4, 1)

B (4, 1)

C (4, 4)

D (4, -1)

E (1, 4)

2 Complete the square and convert this to vertex form to find the vertex

$$y = 2x^2 + 12x + 21$$

A (2, 3)

B (-3, 3)

C (3, -3)

D (2, -3)

E (-3, -3)

F (3, 3)

3 Complete the square and convert this to vertex form to find the vertex

$$y = 2x^2 - 4x + 1$$

A (1, -1)

B (-1, -1)

C (1, 1)

D (2, -1)

E (-1, 1)

F (2, 1)

4 Complete the square and convert this to vertex form to find the vertex

$$y = 2x^2 - 16x + 35$$

A (2, 4)

B (4, -3)

C (3, 4)

D (-4, 3)

E (2, 3)

F (4, 3)

5 Complete the square and convert this to vertex form to find the vertex

$$y = 4x^2 - 32x + 67$$

A (4, 4)

B (-4, 3)

C (3, 4)

D (4, -3)

E (4, 3)

6 Complete the square and convert this to vertex form to find the vertex

$$y = 5x^2 - 40x + 79$$

A (5, 4)

B (-4, -1)

C (5, -1)

D (4, -1)

E (4, 1)

F (-1, 4)

7 Complete the square and convert this to vertex form to find the vertex

$$y = 2x^2 - 12x + 22$$

A (3, -4)

B (2, 4)

C (-3, 4)

D (2, 3)

E (3, 4)

F (4, 3)

8 Complete the square and convert this to vertex form to find the vertex

$$y = 5x^2 - 20x + 21$$

A (1, 2)

B (-2, 1)

C (5, 1)

D (2, -1)

E (5, 2)

F (2, 1)