mobius

Quadratic Equation Standard Form to Vertex (Coefficient -N)

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

$$y = -4x^2 - 16x - 14$$

A (2, 2)	B (-4, -2)
C (-2, 2)	D (2, -2)
E (-2, -2)	F (-4, 2)

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

$$y = -5x^2 - 20x - 24$$

A (-5, -4)	B (-2, -4)
C (-5, -2)	D (-4, -2)
E (-2, 4)	F (2, -4)

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

$$y = -5x^2 + 30x - 41$$

A (-5, 3)	B (4, 3)
C (3, -4)	D (3, 4)
E (-5, 4)	F (-3, 4)

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

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

A (1, 4)	B (-2, 4)
C (-2, 1)	D (-1, 4)
E (1, -4)	F (4, 1)

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

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

A (-2, -3)	B (-4, -3)
C (4, -3)	D (-3, 4)
E (4, 3)	F (-2, 4)

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

$$y = -2x^2 - 12x - 16$$

A (-2, 2)	B (2, -3)
C (-3, 2)	D (-2, -3)
E (3, 2)	F (-3, -2)

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

$$y = -5x^2 + 10x - 9$$

A (-1, -4)	B (-4, 1)
C (-5, -4)	D (1, 4)
E (1, -4)	F (-5, 1)

8 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 (-2, -1)	F (-1, 1)