



Questions?
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Ask Question 

Question
Find the vertex of $4(x - 3)^2 + 3$.

$$y = 4(x - 3)^2 + 3$$

$$y = a(x - h)^2 + k$$

$$a = 4, h = 3, k = 3$$

$$\text{Vertex} = (h, k) = (3, 3)$$

Answer

11. Quadratic equations

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Questions?
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Question
Find the vertex of $5(x + 3)^2 - 3$.

Answer

$$y = 5(x + 3)^2 - 3$$

$$y = 5[x - (-3)]^2 - 3$$

$$y = a(x - h)^2 + k$$

$$a = 5, h = -3, k = -3$$

$$\text{Vertex} = (h, k) = (-3, -3)$$

11. Quadratic equations

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Find the vertex of $6(x + 1)^2 - 4$.

Question

$$y = 6(x + 1)^2 - 4$$

$$y = 6[x - (-1)]^2 - 4$$

$$y = a(x - h)^2 + k$$

$$a = 6, h = -1, k = -4$$

$$\text{Vertex} = (h, k) = (-1, -4)$$

Answer

11. Quadratic equations

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Questions?
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Find the vertex of $10x^2 + 5$.

Question

Answer

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

$$y = 10(x - 0)^2 + 5$$

$$y = a(x - h)^2 + k$$

$$a = 10, h = 0, k = 5$$

$$\text{Vertex} = (h, k) = (0, 5)$$

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Find the parabola of vertex (10,5) and leading coefficient 1 in the standard form.

Question

Answer

$$a = 1, (h, k) = (10, 5)$$

$$y = a(x - h)^2 + k$$

$$y = 1(x - 10)^2 + 5$$

$$y = (x - 10)^2 + 5$$

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Find the parabola of vertex (1, 1) and leading coefficient 5 in the standard form.

Question

Answer

$$a = 5, (h, k) = (1, 1)$$

$$y = a(x - h)^2 + k$$

$$y = 5(x - 1)^2 + 1$$

$$y = 5(x - 1)^2 + 1$$

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