

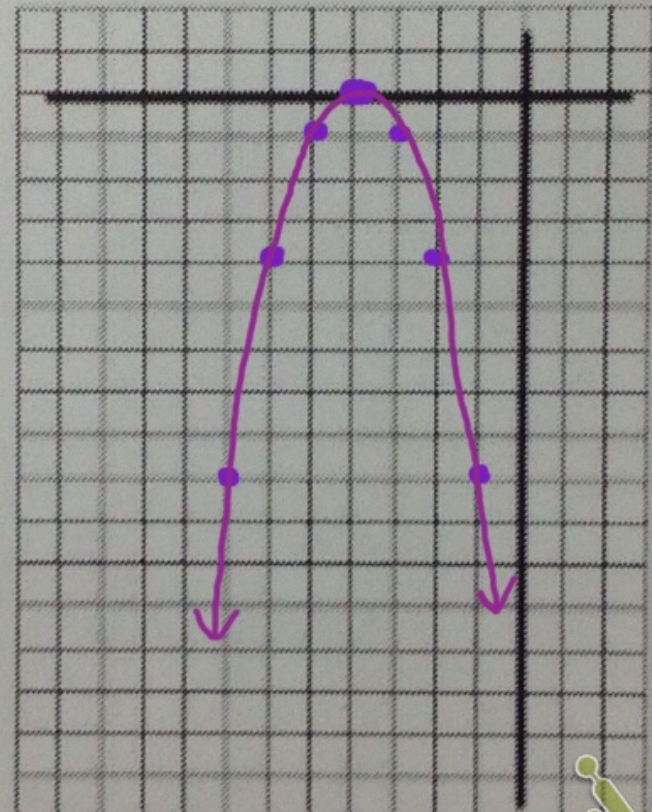
Graphing Quadratics Practice

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

$$(-4, 0)$$

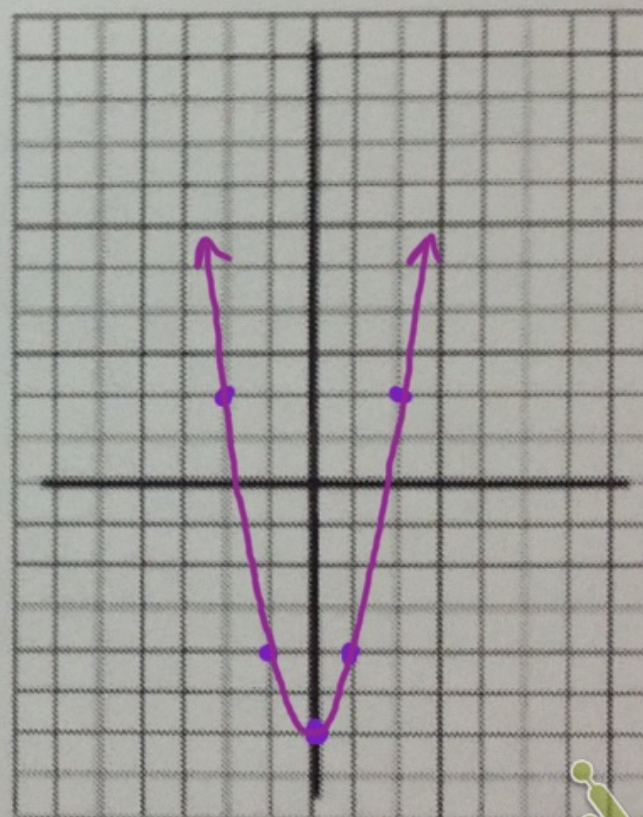


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2. $f(x) = 2x^2 - 6$

$(0, -6)$



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

$$x = \frac{-b}{2a}$$

$$x = \frac{-(4)}{2(2)}$$

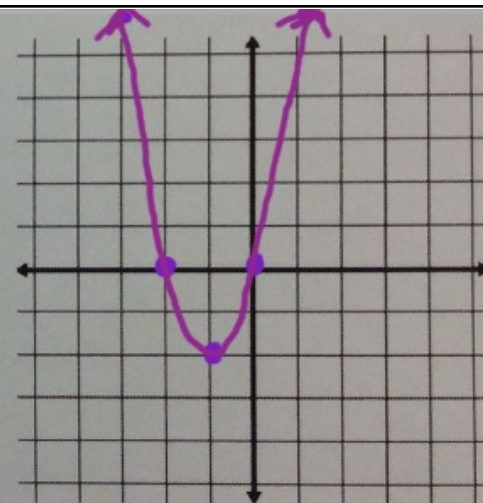
$$x = -1$$

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

$$y = 2 - 4$$

$$y = -2$$

$(-1, -2)$

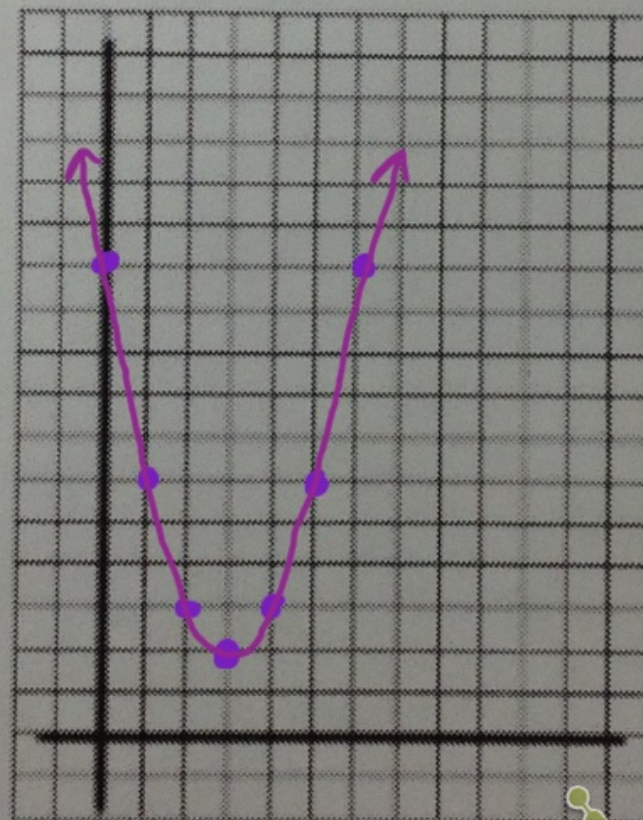


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4. $f(x) = (x - 3)^2 + 2$

$(3, 2)$

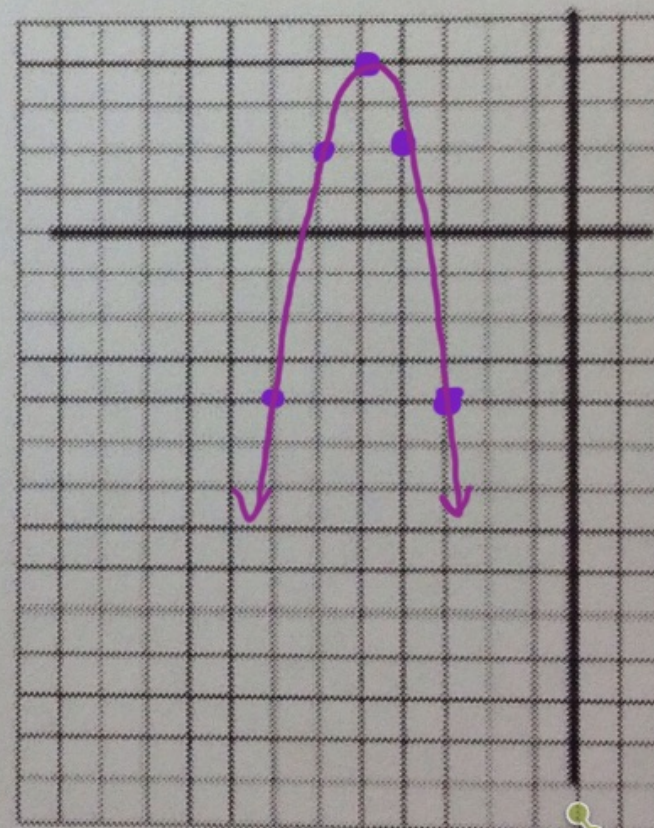



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$$5. f(x) = -2(x + 5)^2 + 4$$

$(-5, 4)$



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$$6. f(x) = -2x^2 + 8x - 3$$

$$x = \frac{-b}{2a}$$

$$x = \frac{-(8)}{2(-2)}$$

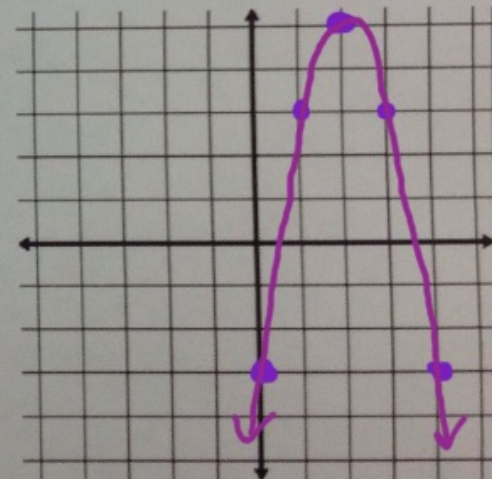
$$x = 2$$

$$y = -2(2)^2 + 8(2) - 3$$

$$y = -8 + 16 - 3$$

$$y = 5$$

(2, 5)

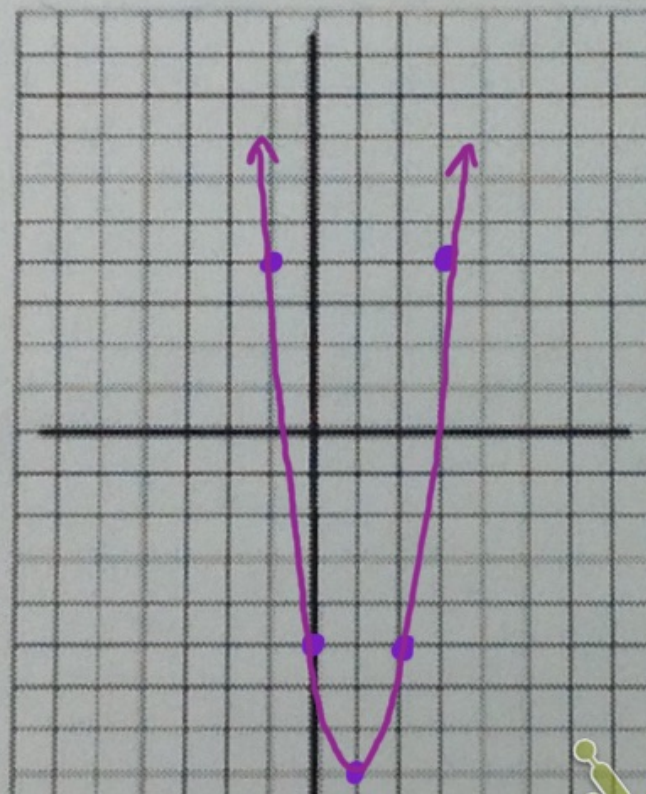


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$$7. f(x) = 3(x - 1)^2 - 8$$

$(1, -8)$

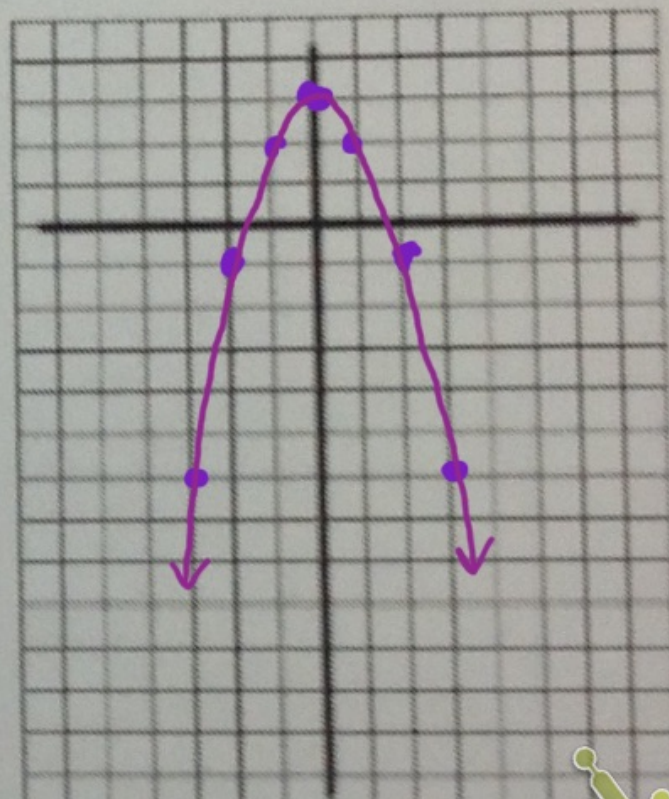


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8. $f(x) = -x^2 + 3$

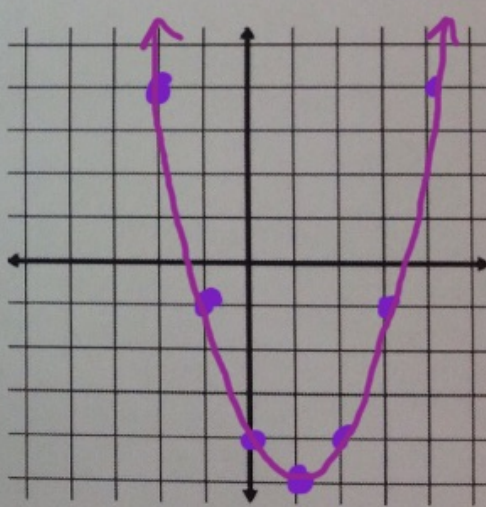
$(0, 3)$




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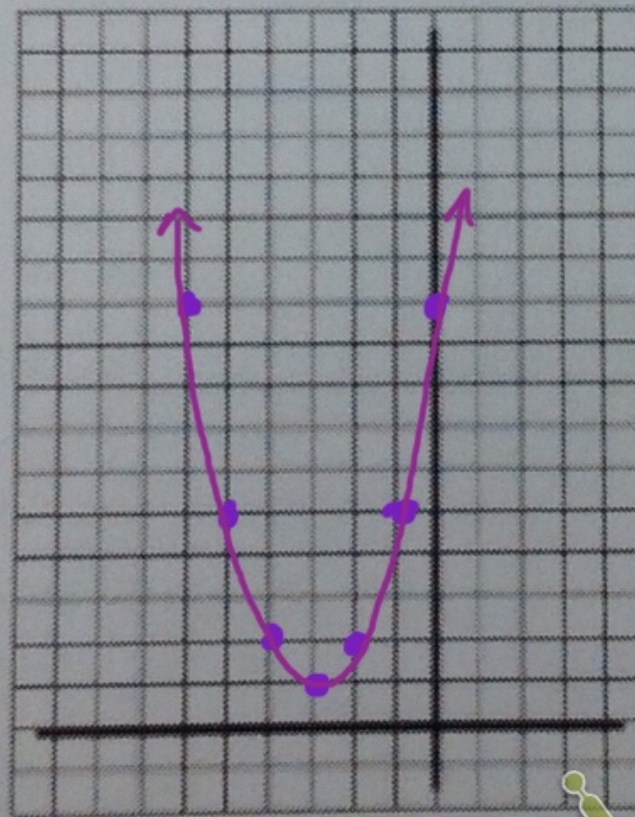
9. $f(x) = x^2 - 2x - 4$

$$x = \frac{-b}{2a}$$
$$x = \frac{-(-2)}{2(1)} \quad (1, -5)$$
$$x = 1$$
$$y = (1)^2 - 2(1) - 4$$
$$y = 1 - 2 - 4$$
$$y = -5$$


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10. $f(x) = (x + 3)^2 + 1$

$(-3, 1)$

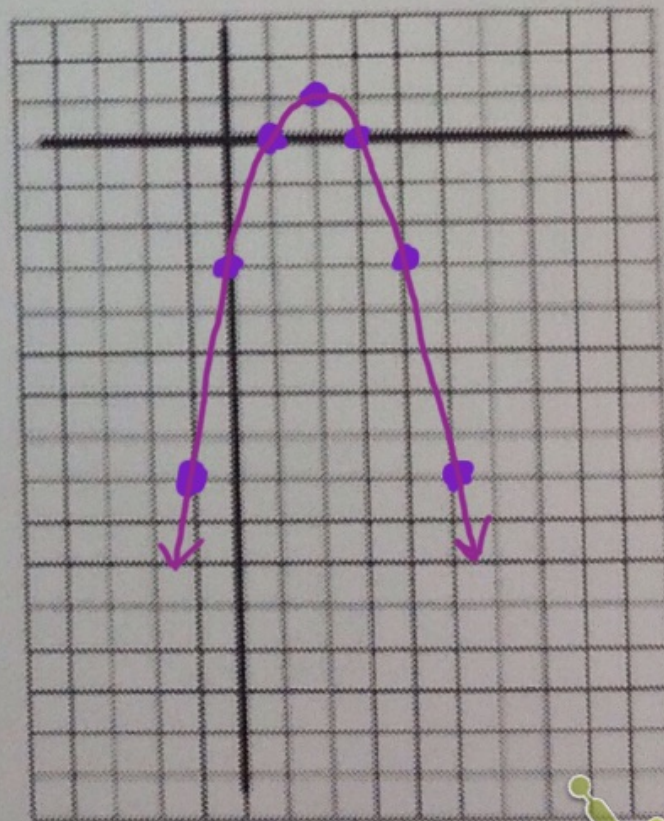


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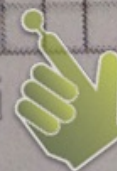


$$11. f(x) = -(x - 2)^2 + 1$$

(2, 1)



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$$12. f(x) = -x^2 - 6x - 9$$

$$x = \frac{-b}{2a}$$

$$x = \frac{-(-6)}{2(-1)}$$

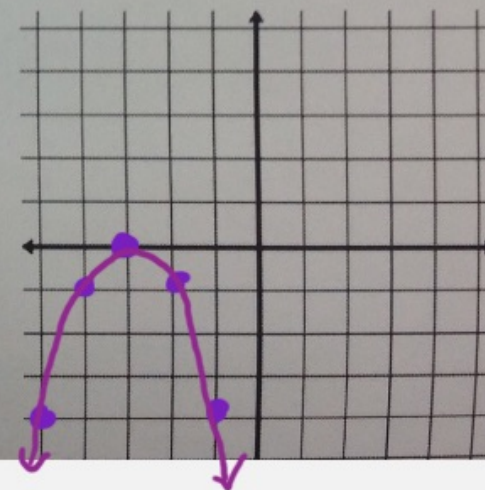
$$(-3, 0)$$

$$x = -3$$

$$y = -(-3)^2 - 6(-3) - 9$$

$$y = -9 + 18 - 9$$

$$y = 0$$



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