**Graphing a Quadratic in Standard Form**

***Directions:*** *Graph each quadratic by finding the axis of symmetry, vertex, and two other points. Show your work for each part.*

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| 1. $y=2x^{2}+4x-5$

Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_*(work)*Vertex: \_\_\_\_\_\_\_\_\_\_*(work)*y-intercept: \_\_\_\_\_\_\_\_\_\_\_*(work)*Reflected Point: \_\_\_\_\_\_\_\_\_\_\_ | Image result for coordinate plane |
| 1. $y=3x^{2}-9x+5$

Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_*(work)*Vertex: \_\_\_\_\_\_\_\_\_\_*(work)*y-intercept: \_\_\_\_\_\_\_\_\_\_\_*(work)*Reflected Point: \_\_\_\_\_\_\_\_\_\_\_ | Image result for coordinate plane |

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| 1. $f\left(x\right)=2x^{2}-6x$

Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_*(work)*Vertex: \_\_\_\_\_\_\_\_\_\_*(work)*y-intercept: \_\_\_\_\_\_\_\_\_\_\_*(work)*Reflected Point: \_\_\_\_\_\_\_\_\_\_\_ | Image result for coordinate plane |
| 1. $-4x^{2}-8x+3$

Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_*(work)*Vertex: \_\_\_\_\_\_\_\_\_\_*(work)*y-intercept: \_\_\_\_\_\_\_\_\_\_\_*(work)*Reflected Point: \_\_\_\_\_\_\_\_\_\_\_ | Image result for coordinate plane |

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| 1. $f\left(x\right)=\frac{1}{4}x^{2}+2x+1$

Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_*(work)*Vertex: \_\_\_\_\_\_\_\_\_\_*(work)*y-intercept: \_\_\_\_\_\_\_\_\_\_\_*(work)*Reflected Point: \_\_\_\_\_\_\_\_\_\_\_ | Image result for coordinate plane |
| 1. $f\left(x\right)=-x^{2}-4x-6$

Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_*(work)*Vertex: \_\_\_\_\_\_\_\_\_\_*(work)*y-intercept: \_\_\_\_\_\_\_\_\_\_\_*(work)*Reflected Point: \_\_\_\_\_\_\_\_\_\_\_ | Image result for coordinate plane |