

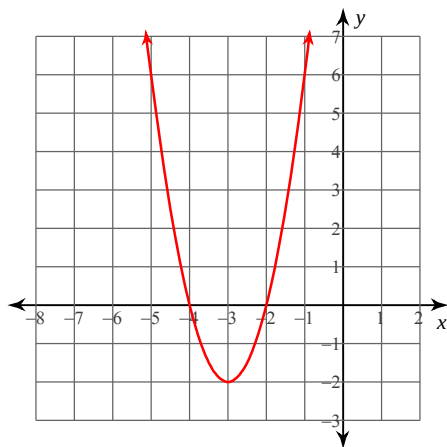
Properties of Parabolas

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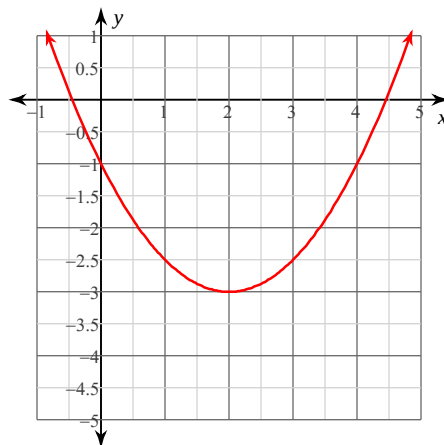
Date _____

For each graph, identify the y-intercept, zeros, vertex, AoS, and Max/Min Value.

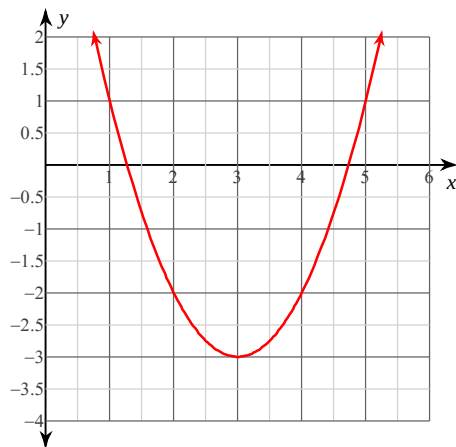
1) $y = 2x^2 + 12x + 16$



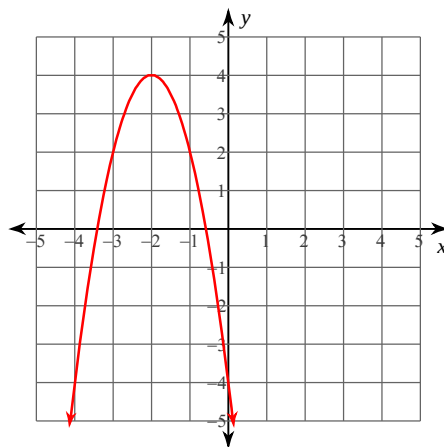
2) $y = \frac{1}{2}x^2 - 2x - 1$



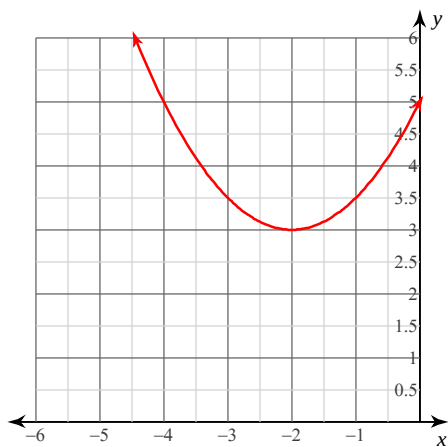
3) $y = x^2 - 6x + 6$



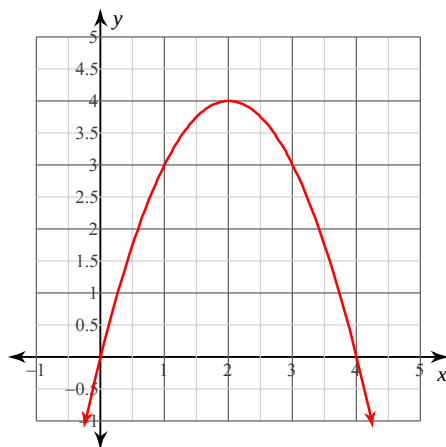
4) $y = -2x^2 - 8x - 4$



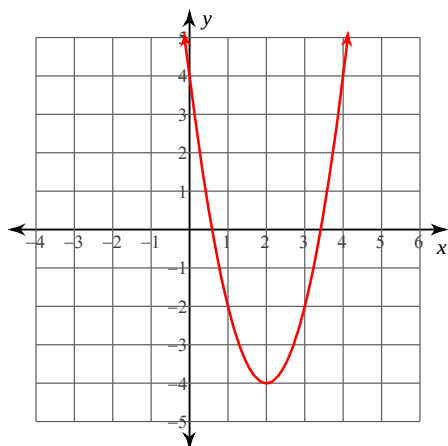
5) $y = \frac{1}{2}x^2 + 2x + 5$



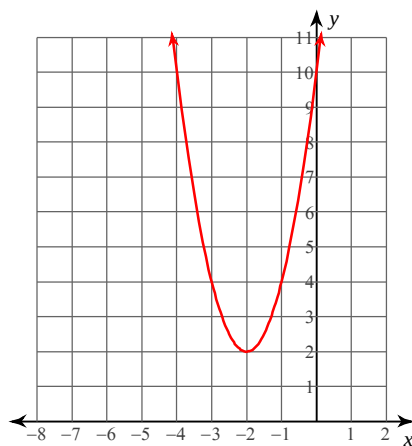
6) $y = -x^2 + 4x$



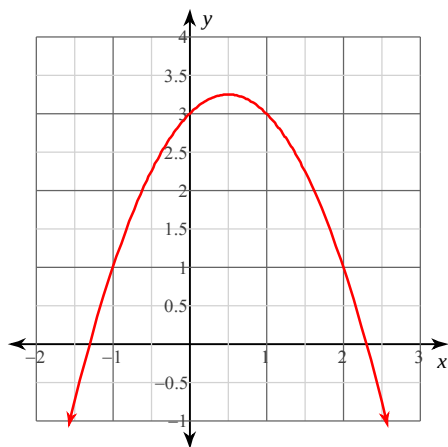
7) $y = 2x^2 - 8x + 4$



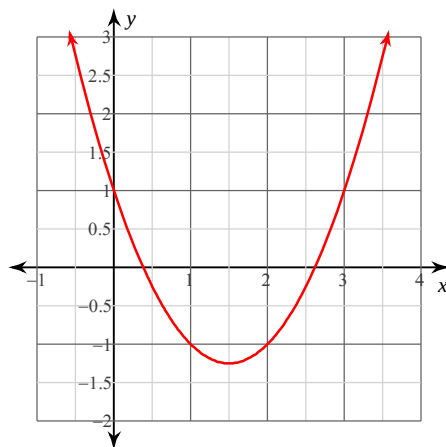
8) $y = 2x^2 + 8x + 10$



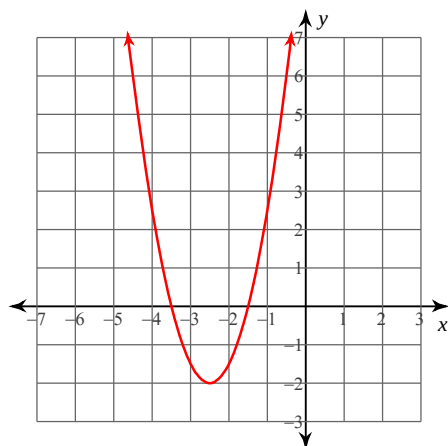
9) $y = -x^2 + x + 3$



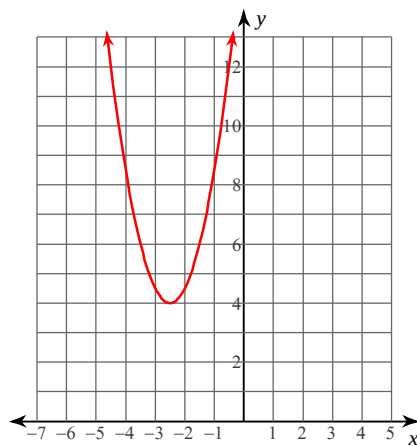
10) $y = x^2 - 3x + 1$



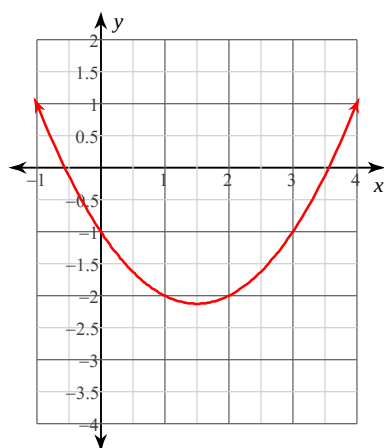
11) $y = 2x^2 + 10x + \frac{21}{2}$



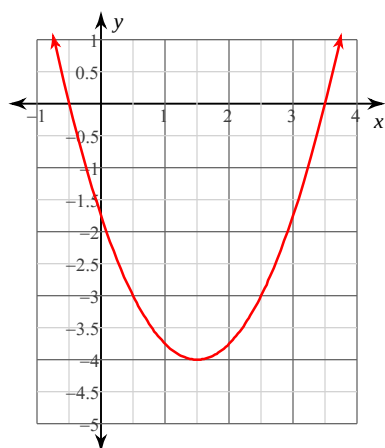
12) $y = 2x^2 + 10x + \frac{33}{2}$



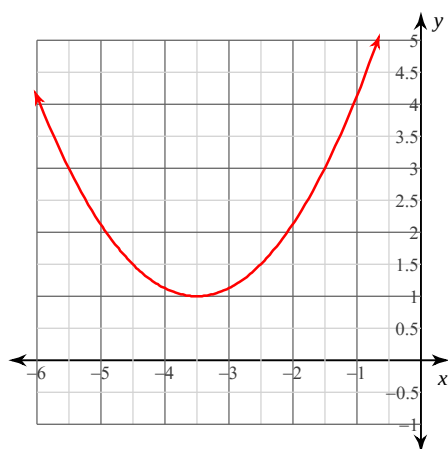
$$13) y = \frac{1}{2}x^2 - \frac{3}{2}x - 1$$



$$14) y = x^2 - 3x - \frac{7}{4}$$



$$15) y = \frac{1}{2}x^2 + \frac{7}{2}x + \frac{57}{8}$$



$$16) y = -2x^2 - 14x - 20$$

