***Directions: Graph each function. Talk about the domain and range, intervals where the parabola is increasing and decreasing, positive and negative, state minimums and maximums, and end behavior.***

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| Vertex: \_\_\_\_\_\_\_\_ Axis of Symmetry: \_\_\_\_\_\_\_\_  y intercept: \_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_  Increasing:\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_  x value where y is positive: \_\_\_\_\_\_\_  x value where y is negative: \_\_\_\_\_\_\_  Minimum Maximum  As x→∞f(x)→\_\_\_\_\_\_  As x→-∞f(x)→\_\_\_\_\_\_ | Vertex: \_\_\_\_\_\_\_\_ Axis of Symmetry: \_\_\_\_\_\_\_\_  y intercept: \_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_  Increasing:\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_  x value where y is positive: \_\_\_\_\_\_\_  x value where y is negative: \_\_\_\_\_\_\_  Minimum Maximum  As x→∞f(x)→\_\_\_\_\_\_  As x→-∞f(x)→\_\_\_\_\_\_ |
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| Vertex: \_\_\_\_\_\_\_\_ Axis of Symmetry: \_\_\_\_\_\_\_\_  y intercept: \_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_  Increasing:\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_  x value where y is positive: \_\_\_\_\_\_\_  x value where y is negative: \_\_\_\_\_\_\_  Minimum Maximum  As x→∞f(x)→\_\_\_\_\_\_  As x→-∞f(x)→\_\_\_\_\_\_ | Vertex: \_\_\_\_\_\_\_\_ Axis of Symmetry: \_\_\_\_\_\_\_\_  y intercept: \_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_  Increasing:\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_  x value where y is positive: \_\_\_\_\_\_\_  x value where y is negative: \_\_\_\_\_\_\_  Minimum Maximum  As x→∞f(x)→\_\_\_\_\_\_  As x→-∞f(x)→\_\_\_\_\_\_ |