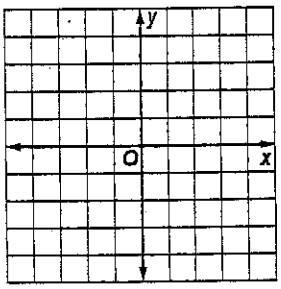
4 Term 3/16 Day 35

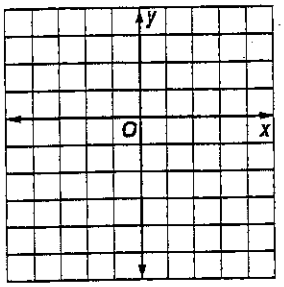
Graphing Quadratic Functions

Use a table of values to graph each function.

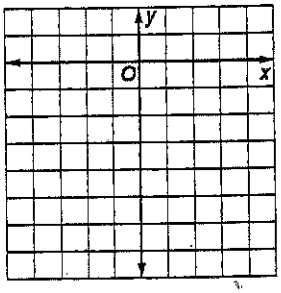
1. $y = x^2 - 4$



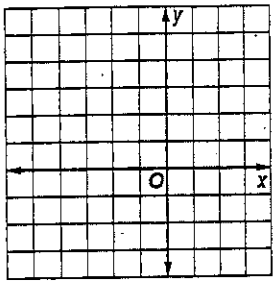
2. $y = -x^2 + 3$



3. $y = x^2 - 2x - 6$

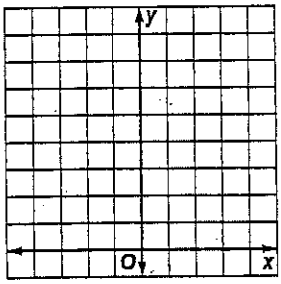


4. $y = -x^2 - 4x + 1$

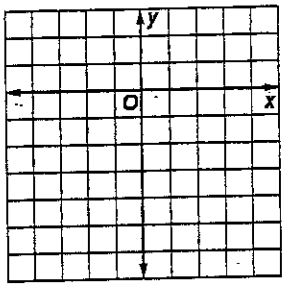


Write the equation of the axis of symmetry, and find the coordinates of the vertex of the graph of each function. Identify the vertex as a maximum or minimum. Then graph the function.

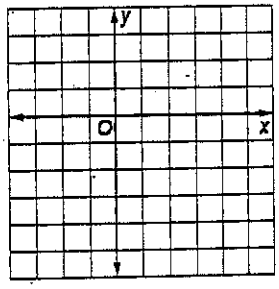
5. $y = 2x^2$



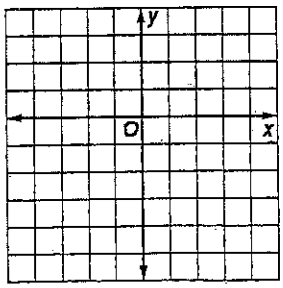
6. $y = x^2 - 2x - 5$



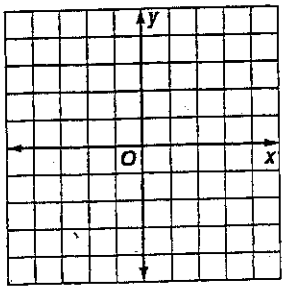
7. $y = -x^2 + 4x - 1$



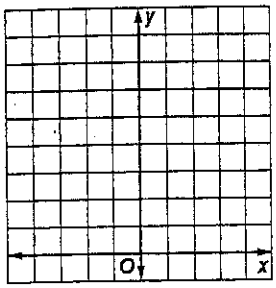
8. $y = -x^2 - 2x + 2$



9. $y = 2x^2 + 4x - 2$



10. $y = -2x^2 - 4x + 6$

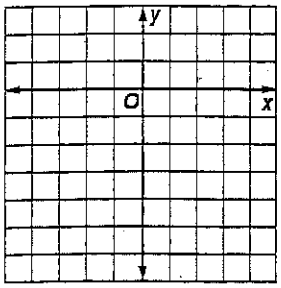


Lesson 10-1

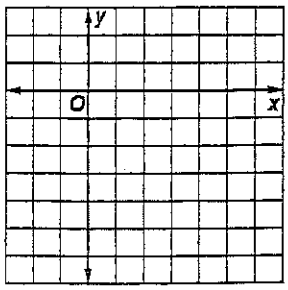
Graphing Quadratic Functions

Use a table of values to graph each function.

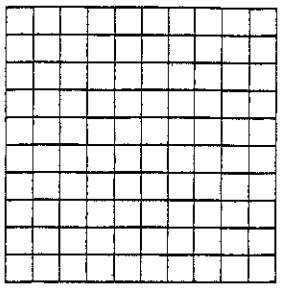
1. $y = -x^2 + 2$



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

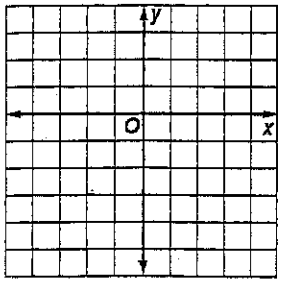


3. $y = -2x^2 - 8x - 5$

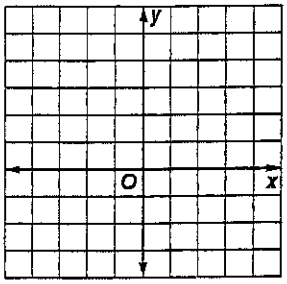


Write the equation of the axis of symmetry, and find the coordinates of the vertex of the graph of each function. Identify the vertex as a maximum or minimum. Then graph the function.

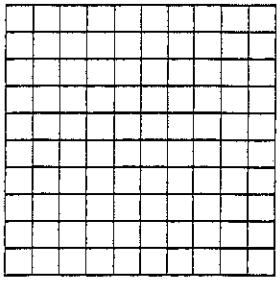
4. $y = -x^2 + 3$



5. $y = -2x^2 + 8x - 3$



6. $y = 2x^2 + 8x + 1$



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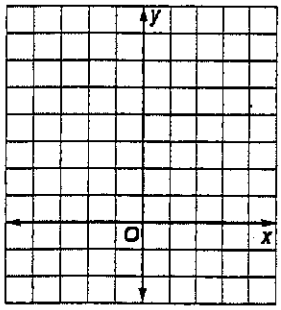
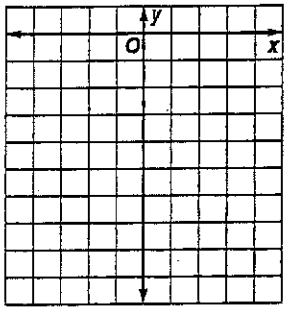
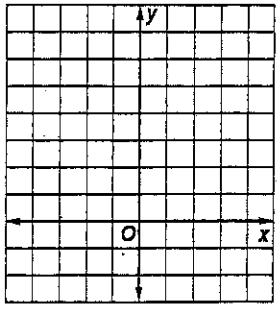


2. $y = -x^2 - 4$

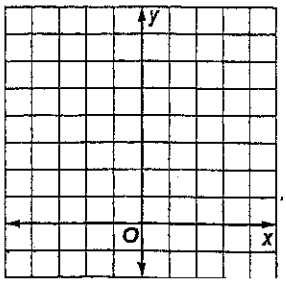


3. $y = x^2 - 3x + 2$

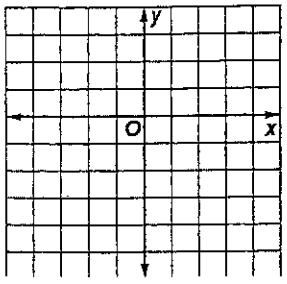


Write the equation of the axis of symmetry, and find the coordinates of the vertex of the graph of each function. Identify the vertex as a maximum or a minimum. Then graph the function.

1. $y = x^2 + 3$



2. $y = -x^2 - 4x - 4$



3. $y = x^2 + 2x + 3$