

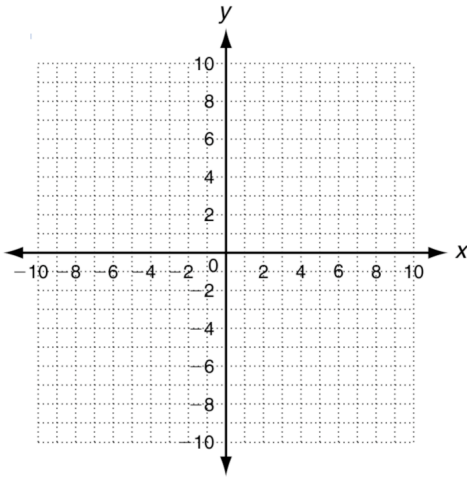
Algebra 1B Homework Check (9-3)

(Please attach homework to this sheet and fill out the questions below.)

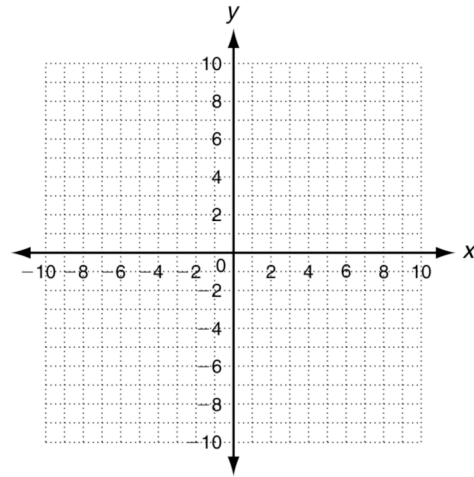
Pg. 609: 1-7

Graph each quadratic function.

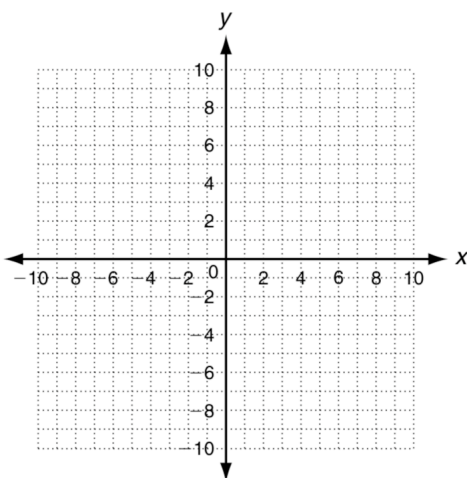
1. $y = x^2 - 2x - 3$



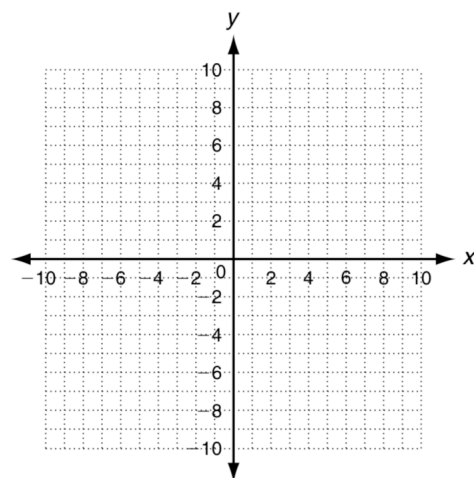
2. $-y - 3x^2 = -3$



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



4. $y = x^2 + 4x - 8$

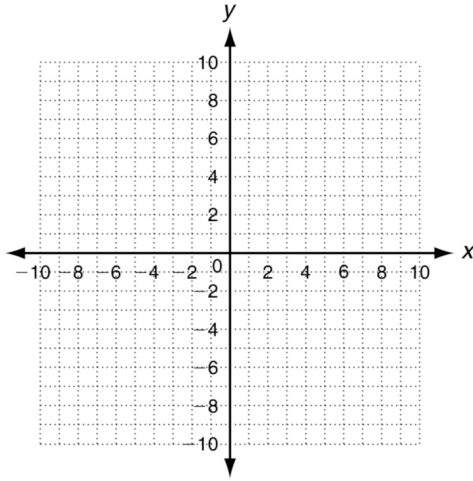


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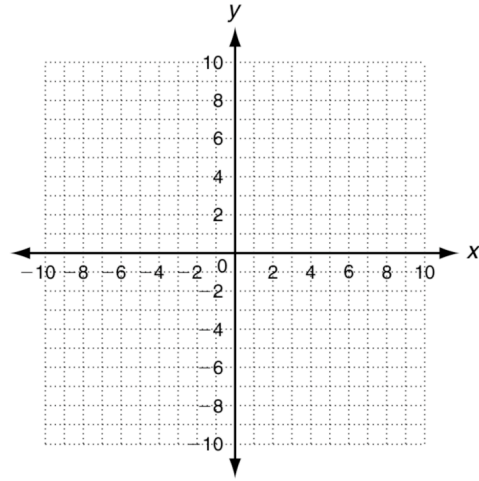
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5. $y + x^2 + 5x + 2 = 0$



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



7. **Multi-Step** The height in feet of a golf ball that is hit from the ground can be modeled by the function $f(x) = -16x^2 + 96x$, where x is the time in seconds after the ball is hit. Find the ball's maximum height and the time it takes the ball to reach this height. Then find how long the ball is in the air.