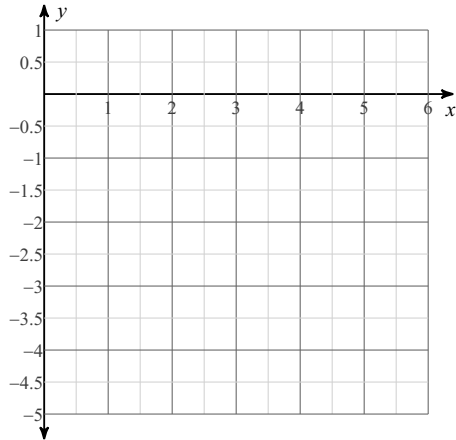


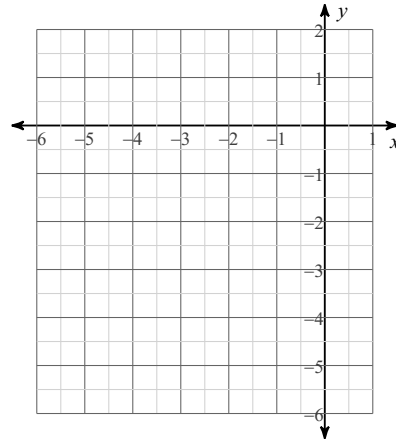
9.33-9.43

Graph the following functions. Use the zero product property to determine the x intercepts, the formula for calculating the axis of symmetry, and plug in the axis of symmetry into the function in order to determine the vertex.

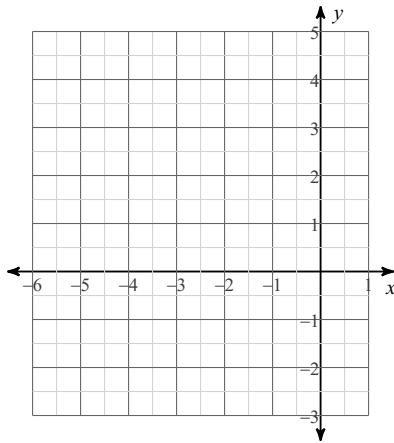
1) $y = x^2 - 6x + 5$



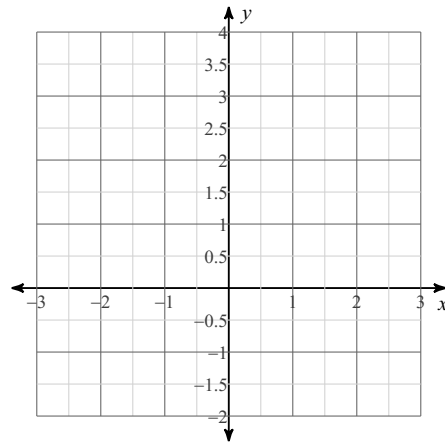
2) $y = x^2 + 8x + 12$



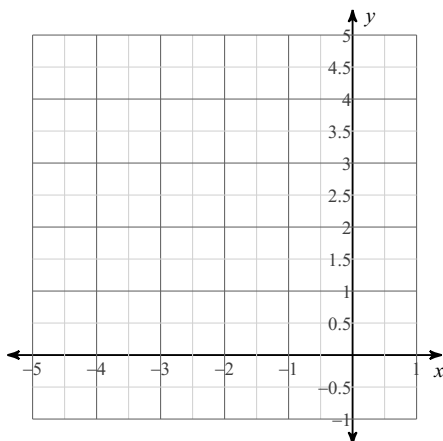
3) $y = x^2 + 8x + 15$



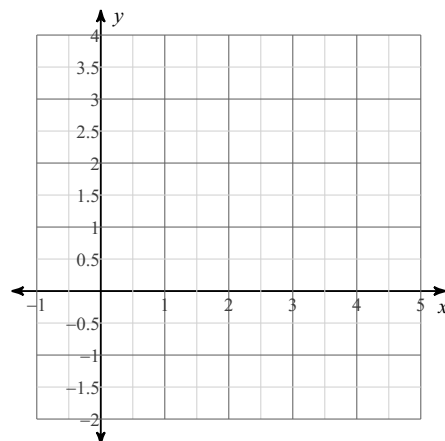
4) $y = x^2 + 2x$



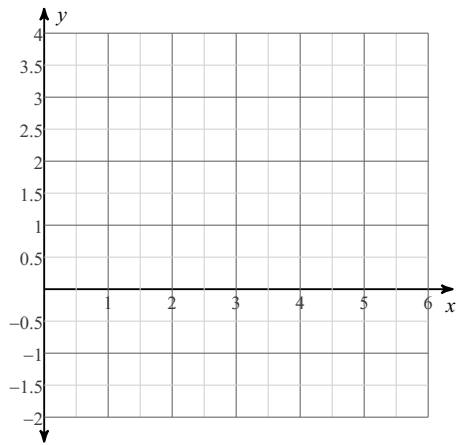
5) $f(x) = -x^2 - 4x$



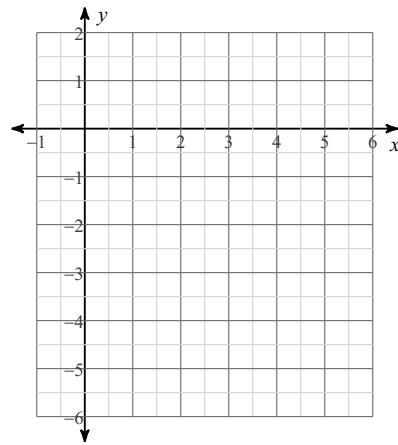
6) $f(x) = x^2 - 4x + 3$



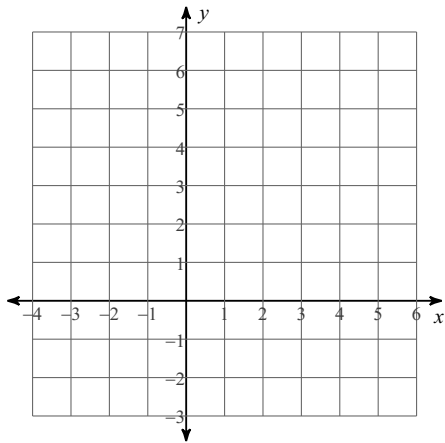
7) $f(x) = x^2 - 6x + 8$



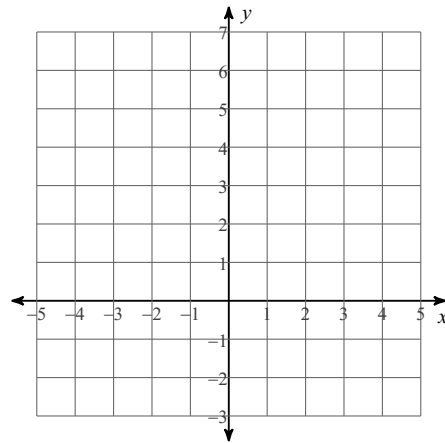
8) $f(x) = x^2 - 8x + 12$



9) $f(x) = 2x^2 + 4x$

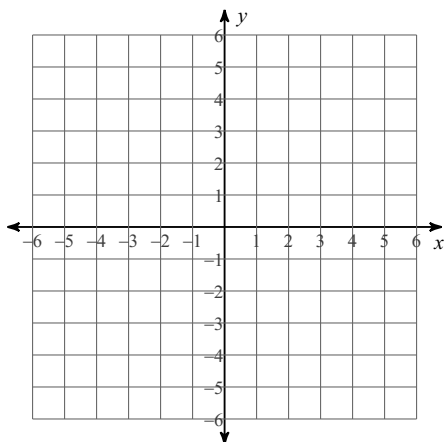


10) $f(x) = 2x^2 + 12x + 16$

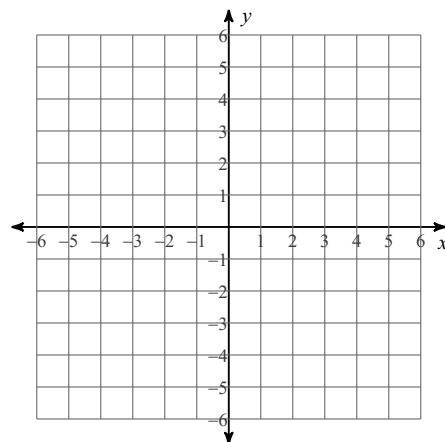


Sketch the graph of each line.

11) $2x = y + 1$

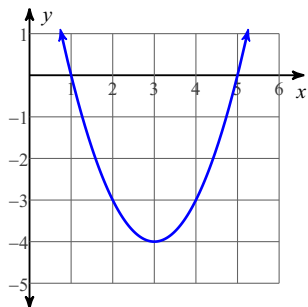


12) $-15y - 12x = -60$

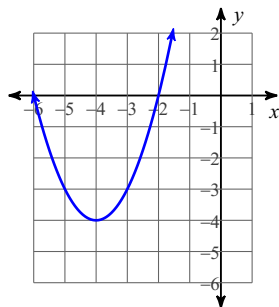


Answers to 9.33-9.43 (ID: 1)

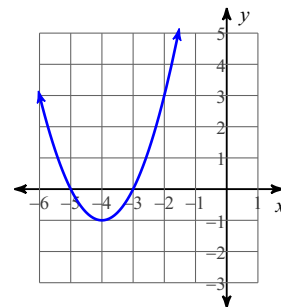
1)



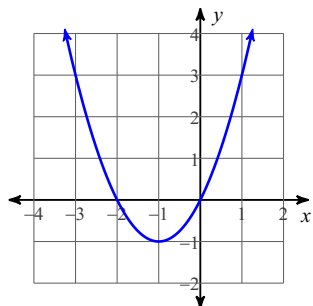
2)



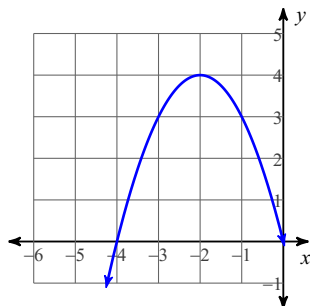
3)



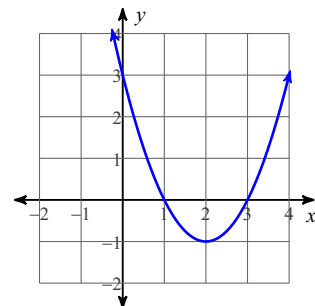
4)



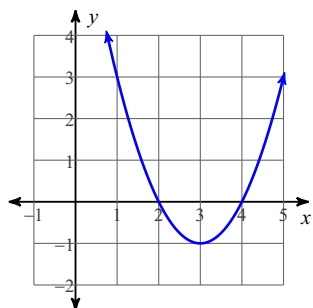
5)



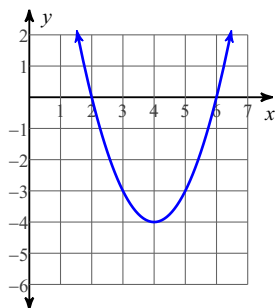
6)



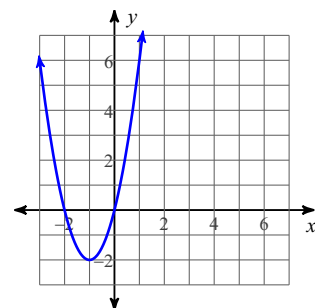
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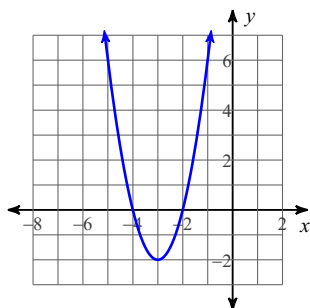
8)



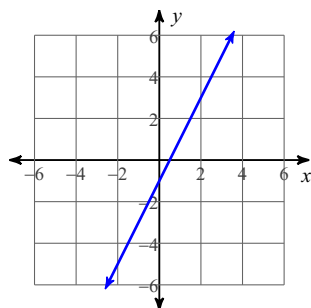
9)



10)



11)



12)

