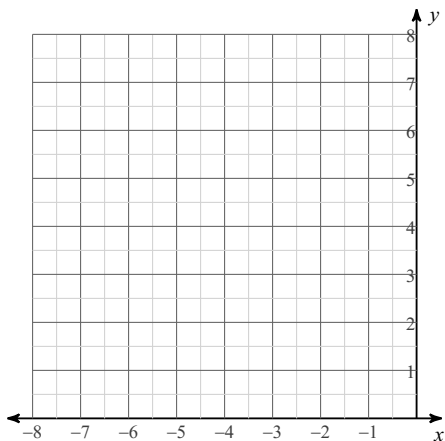


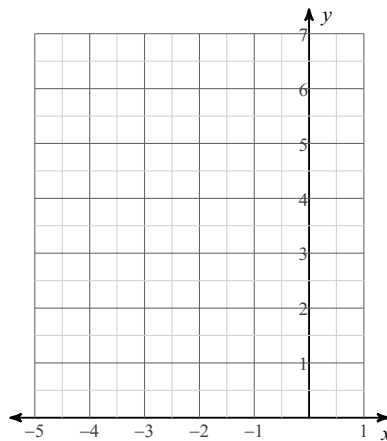
Assignment

Sketch the graph of each function.

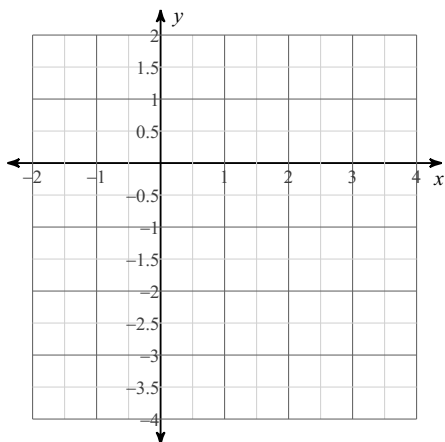
1) $f(x) = (x + 3)^2 + 3$



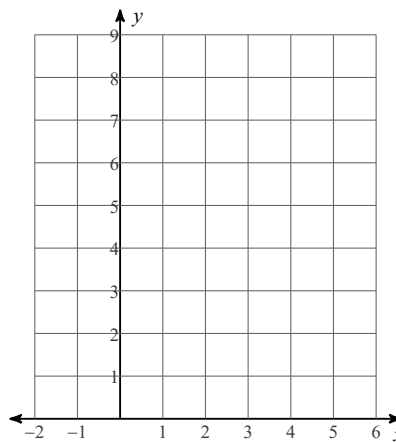
2) $f(x) = (x + 2)^2 + 2$



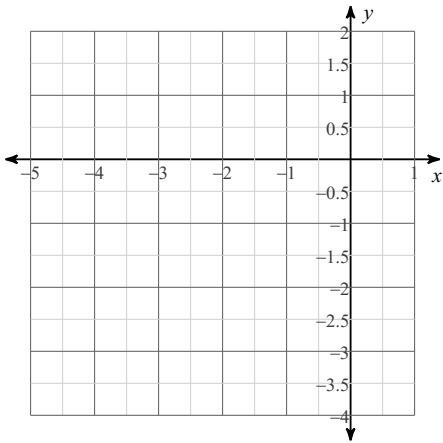
3) $f(x) = (x - 1)^2 - 3$



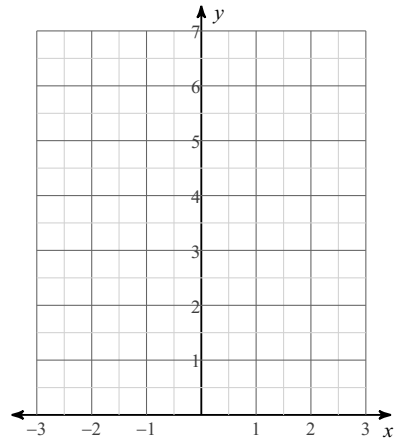
4) $f(x) = (x - 3)^2 + 4$



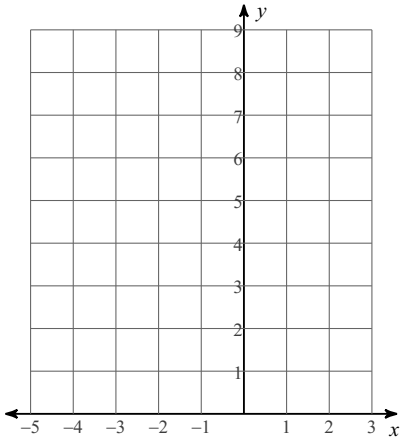
5) $f(x) = (x + 1)^2 - 3$



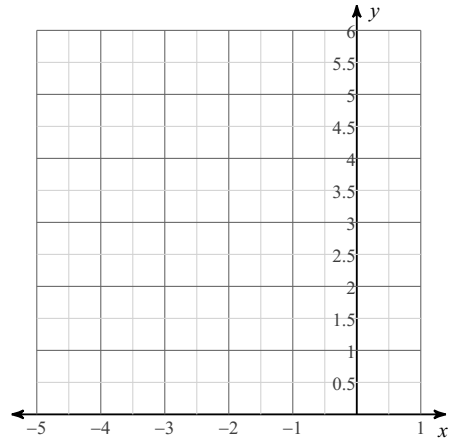
6) $f(x) = (x - 1)^2 + 2$



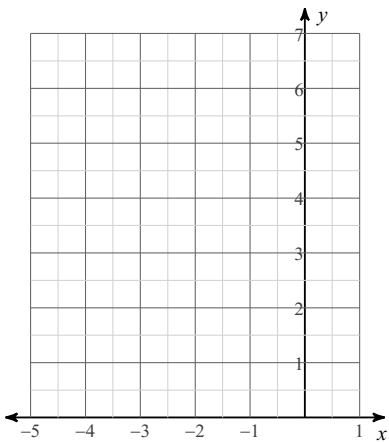
7) $f(x) = (x + 1)^2 + 4$



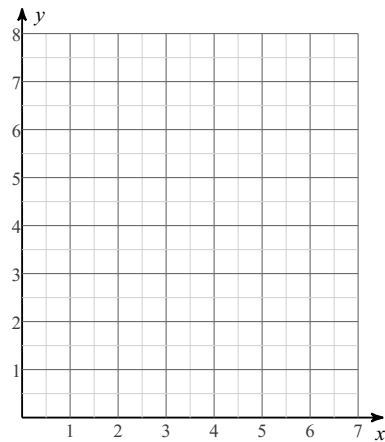
8) $f(x) = (x + 2)^2 + 1$



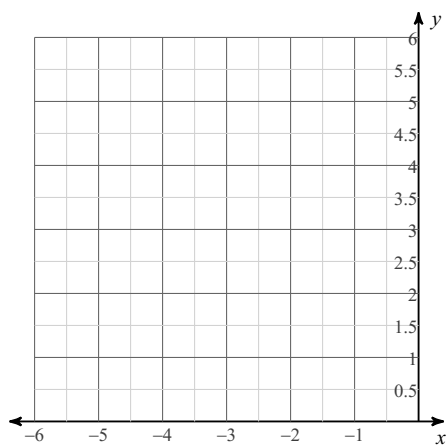
9) $f(x) = (x + 1)^2 + 2$



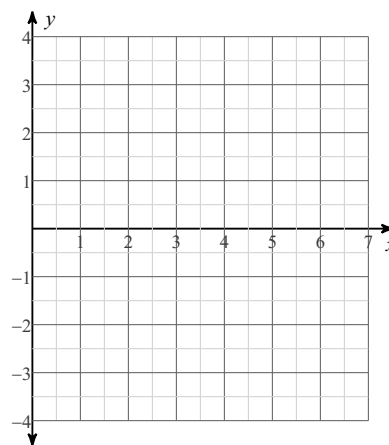
10) $f(x) = (x - 4)^2 + 3$



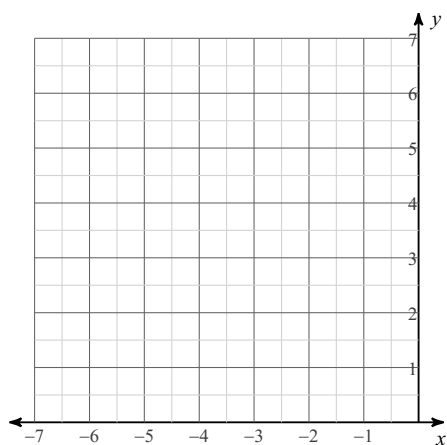
11) $y = x^2 + 6x + 10$



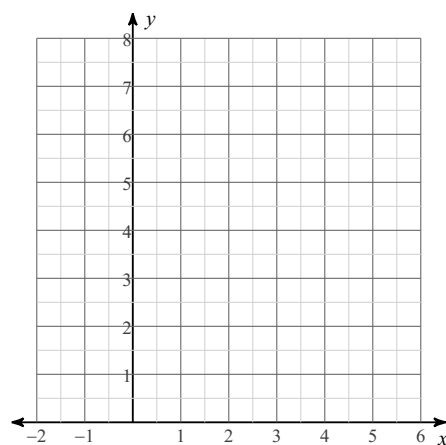
12) $y = x^2 - 8x + 14$



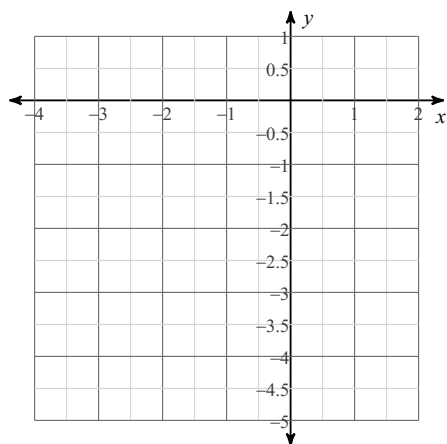
13) $y = x^2 + 8x + 18$



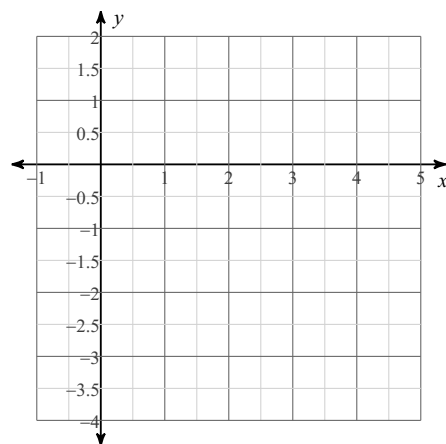
14) $y = x^2 - 4x + 7$



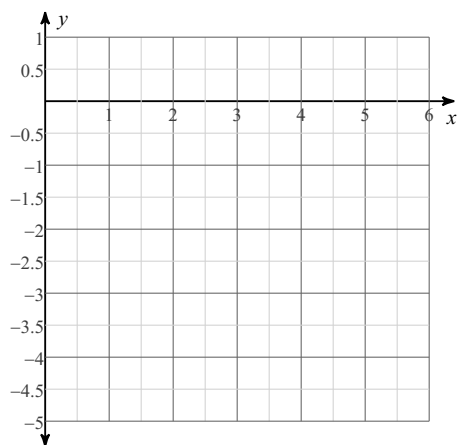
15) $y = x^2 + 2x - 3$



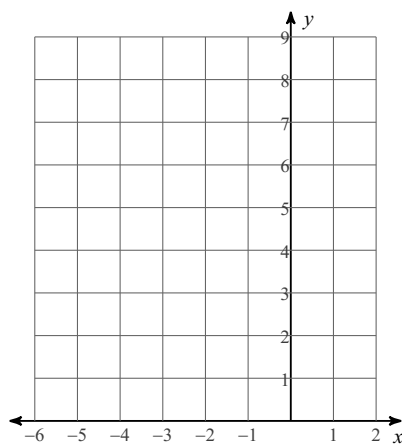
16) $y = x^2 - 4x + 1$



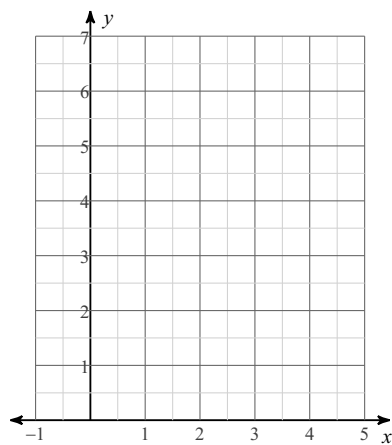
17) $y = x^2 - 4x$



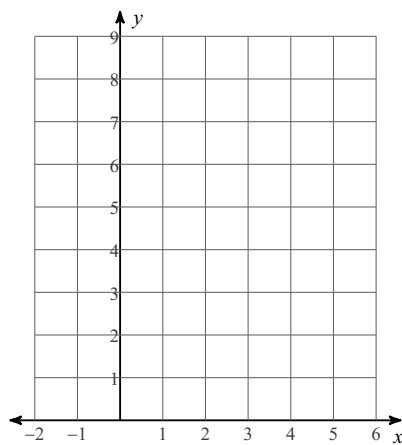
18) $y = x^2 + 4x + 8$



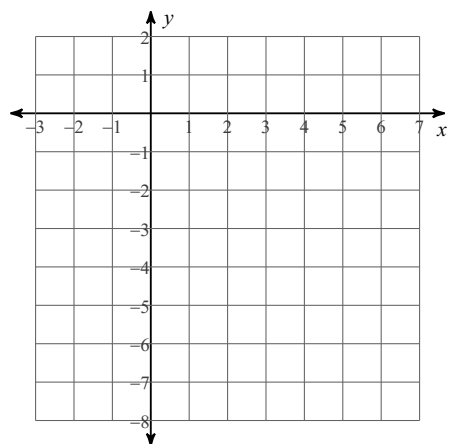
19) $y = x^2 - 2x + 3$



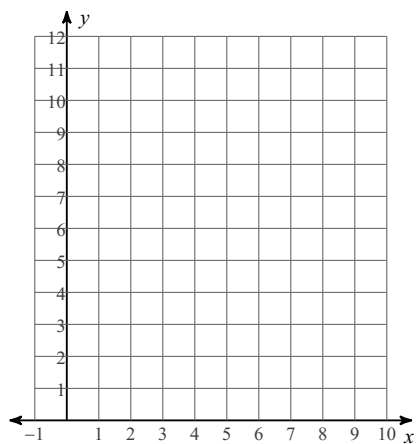
20) $y = x^2 - 4x + 8$



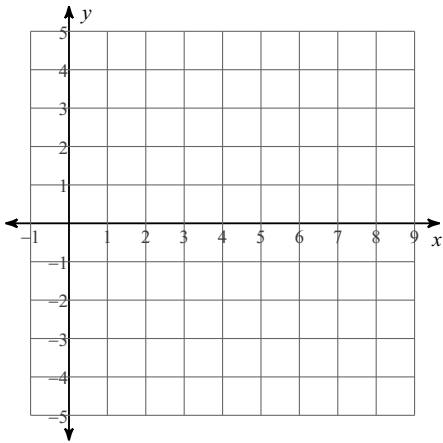
21) $y = -2(x - 1)^2 + 1$



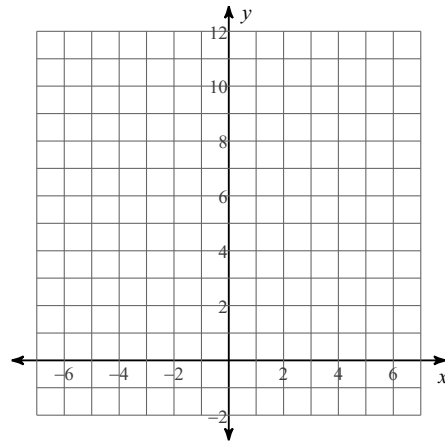
22) $y = 2(x - 4)^2 + 3$



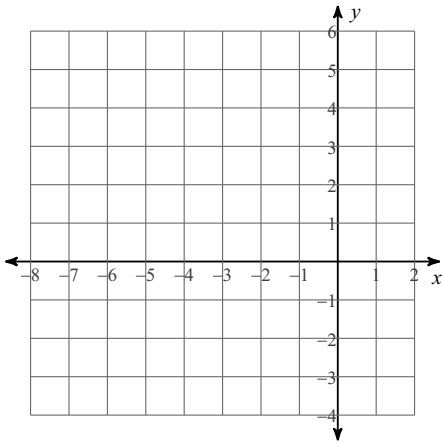
$$23) y = -2(x - 3)^2 + 4$$



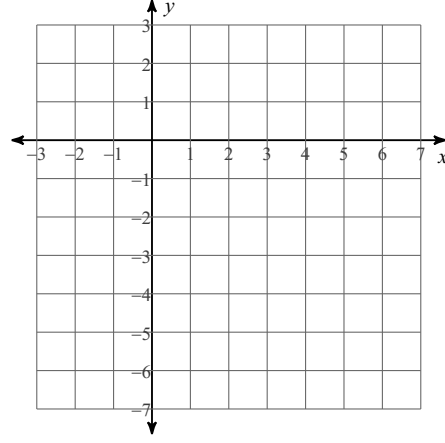
$$24) y = 3(x - 3)^2 - 1$$



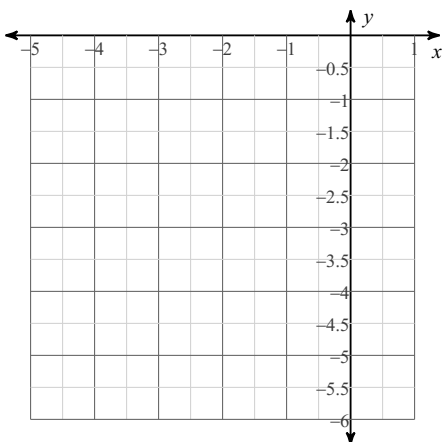
$$25) y = 2(x + 3)^2 - 3$$



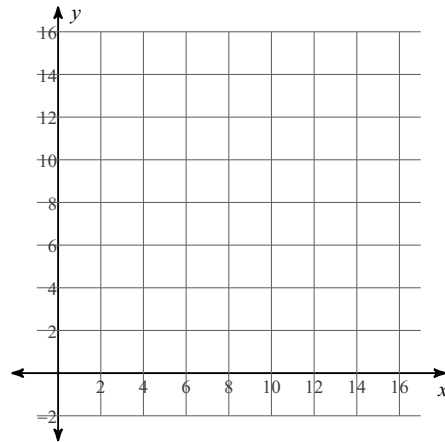
$$26) y = -2x^2 + 4x$$



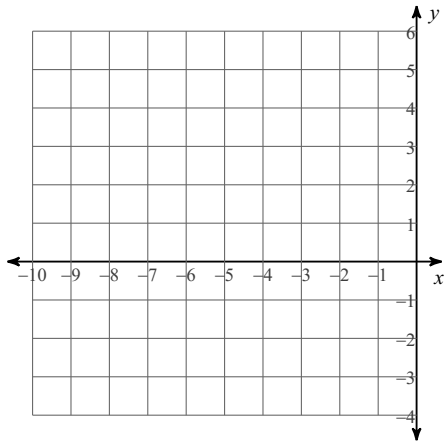
$$27) y = -\frac{1}{2}x^2 - 2x - 5$$



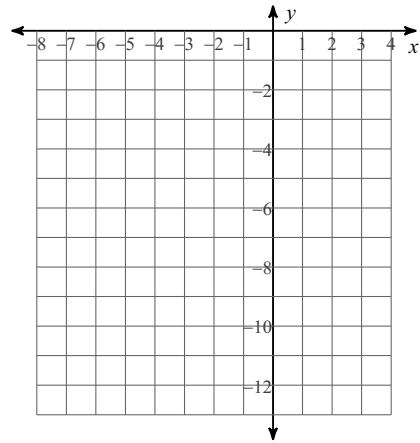
$$28) y = 4x^2 - 24x + 35$$



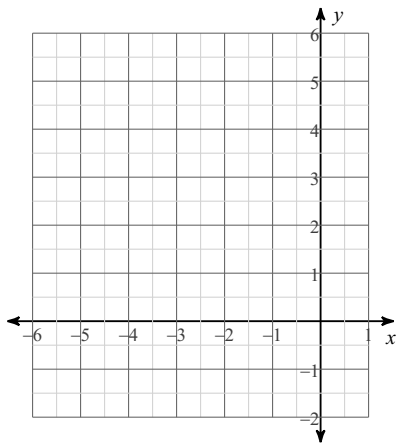
29) $y = 2x^2 + 8x + 5$



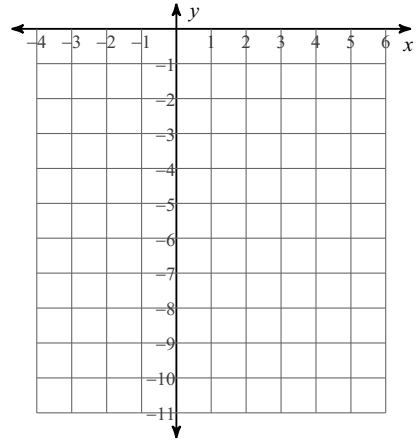
30) $y = -2x^2 - 8x - 12$



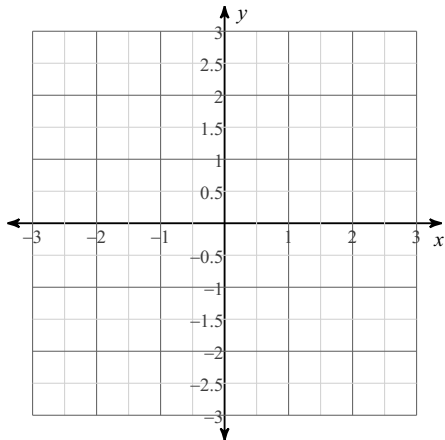
31) $y = \frac{1}{2}(x + 4)^2 + 1$



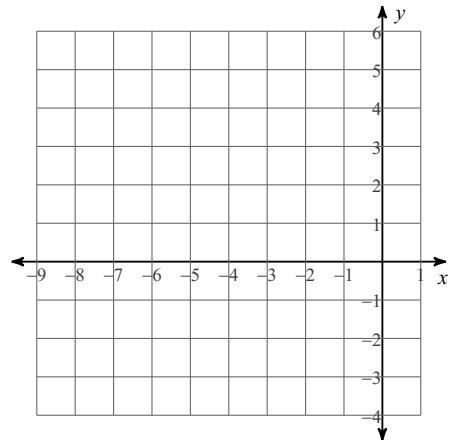
32) $y = -2(x + 2)^2 - 2$



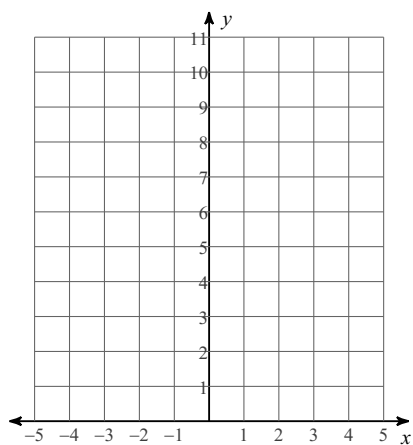
33) $y = -(x - 1)^2 + 2$



34) $y = 2(x + 1)^2 - 3$

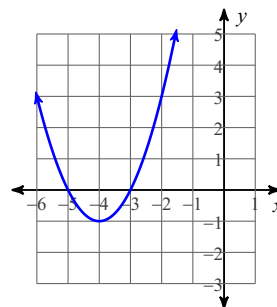


35) $y = 2(x - 3)^2 + 2$

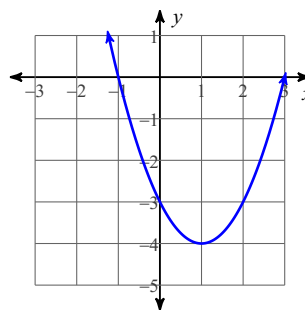


36) $f(x) = (x - 1)^2 - 4$

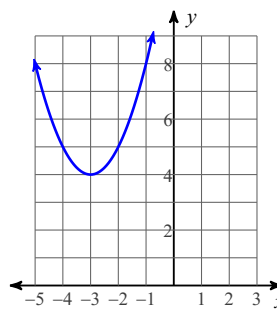
A)



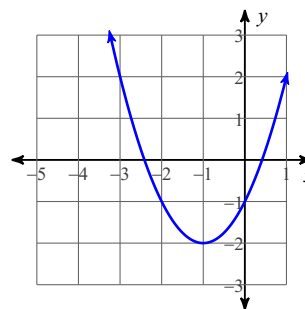
B)



C)

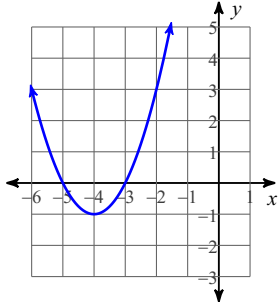


D)

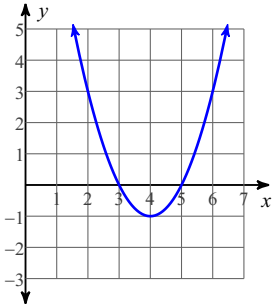


37) $f(x) = (x - 3)^2 - 4$

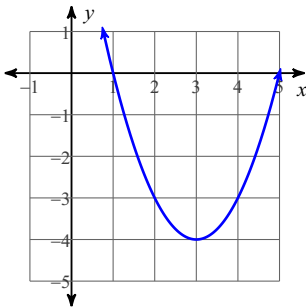
A)



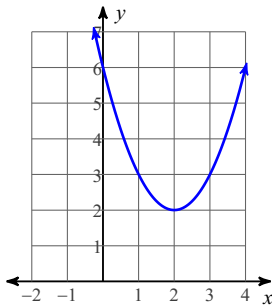
B)



C)

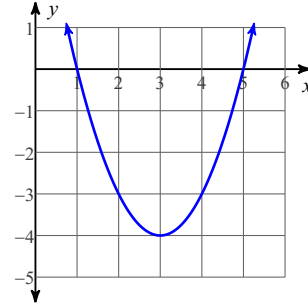


D)

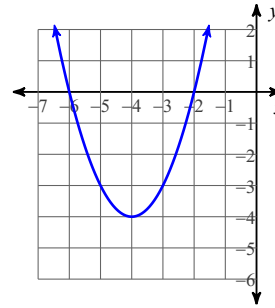


38) $f(x) = (x + 4)^2 + 3$

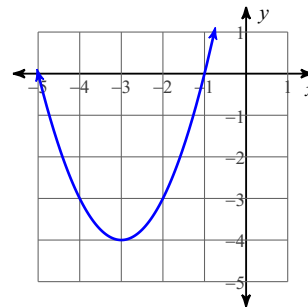
A)



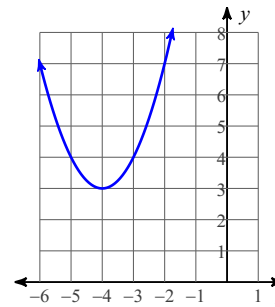
B)



C)

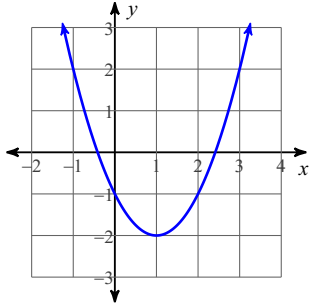


D)

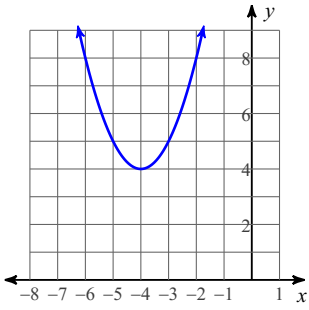


39) $f(x) = (x - 1)^2 - 2$

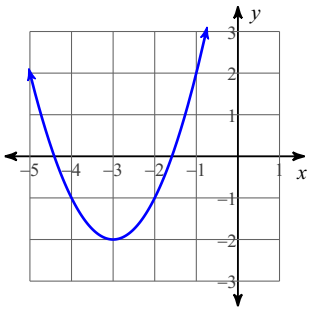
A)



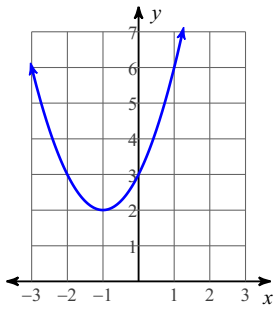
B)



C)

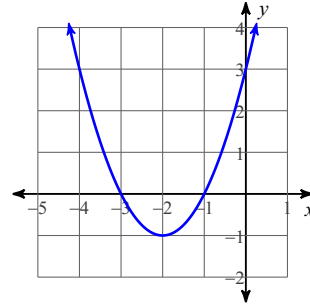


D)

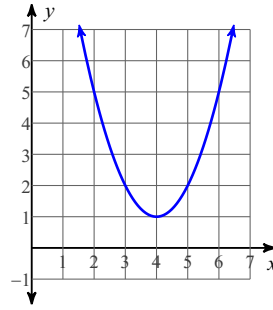


40) $f(x) = (x + 2)^2 - 1$

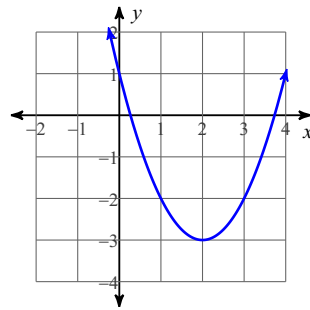
A)



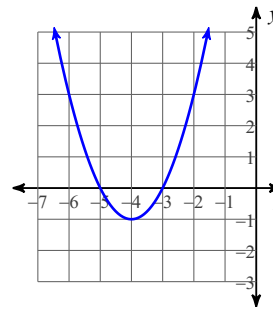
B)



C)

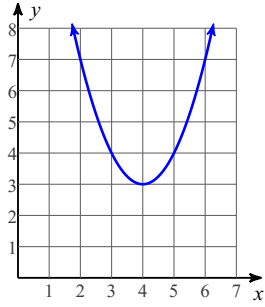


D)

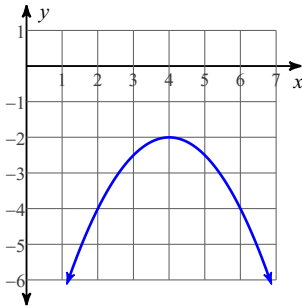


41) $f(x) = 2x^2 + 4x + 5$

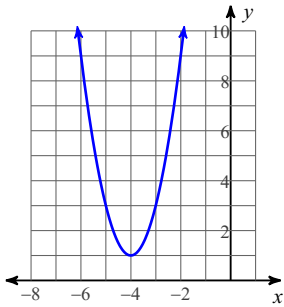
A)



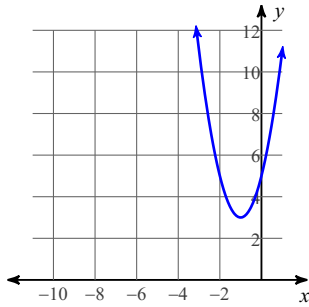
B)



C)

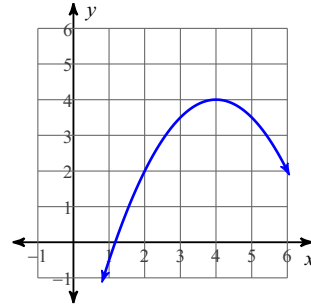


D)

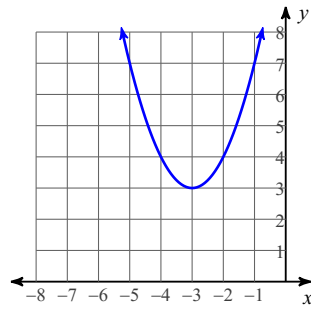


42) $f(x) = 3x^2 + 24x + 51$

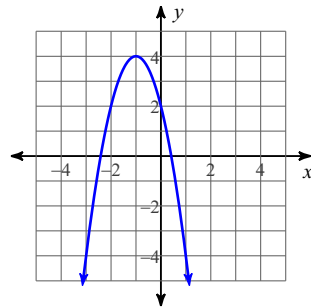
A)



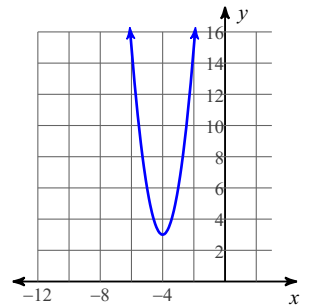
B)



C)

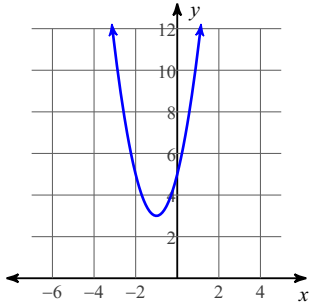


D)

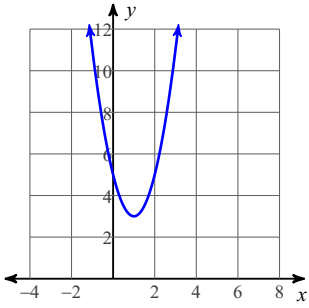


43) $f(x) = x^2 - 4x$

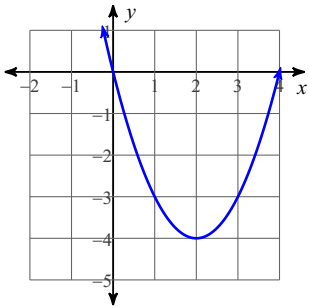
A)



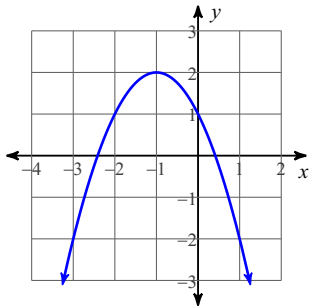
B)



C)

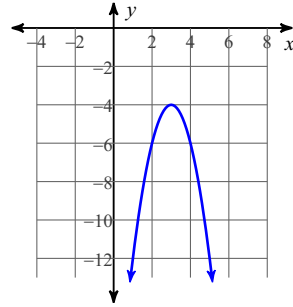


D)

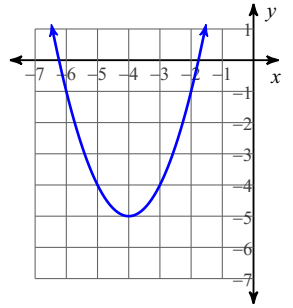


44) $f(x) = 2x^2 - 8x + 11$

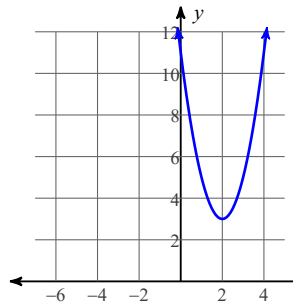
A)



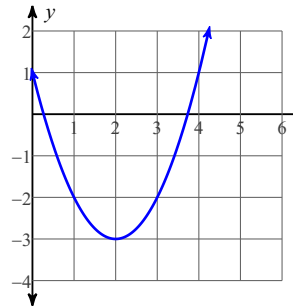
B)



C)

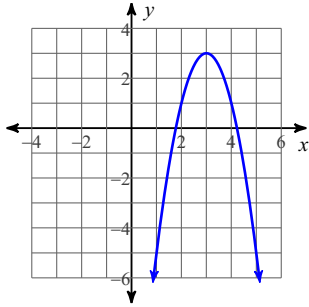


D)

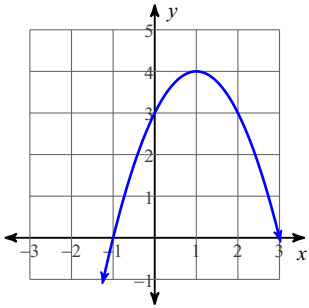


45) $f(x) = x^2 + 8x + 12$

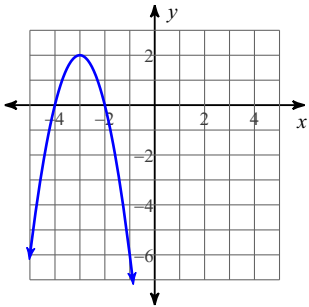
A)



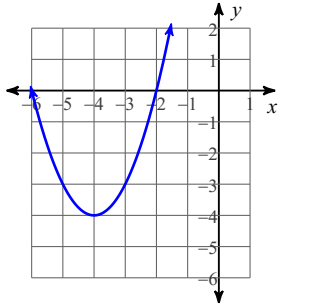
B)



C)

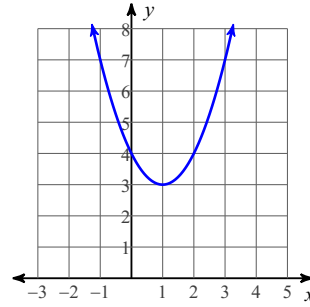


D)

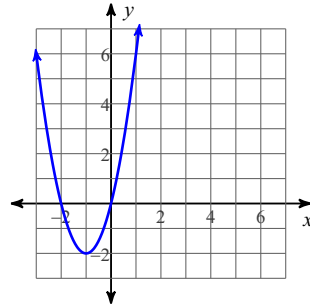


46) $y = x^2 - 2x + 4$

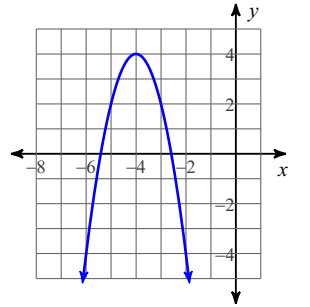
A)



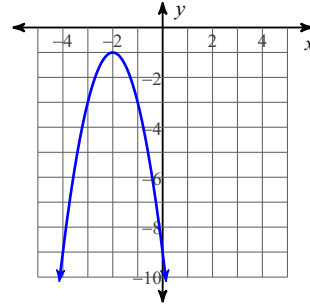
B)



C)

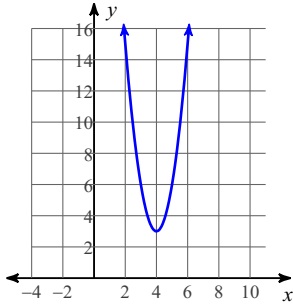


D)

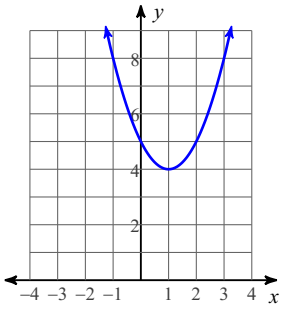


47) $y = -x^2 - 8x - 13$

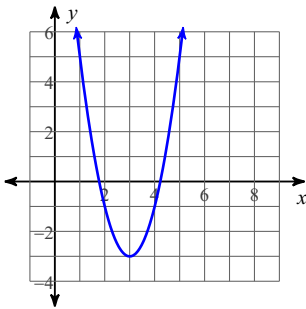
A)



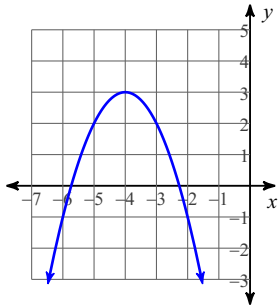
B)



C)

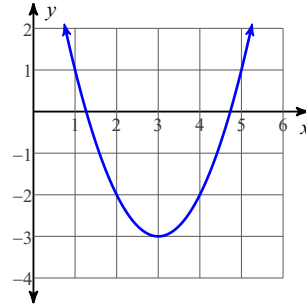


D)

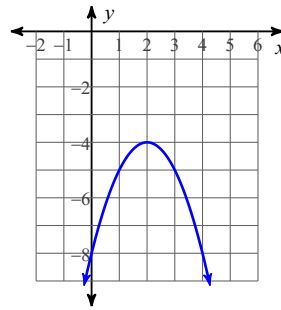


48) $y = -x^2 + 4x - 8$

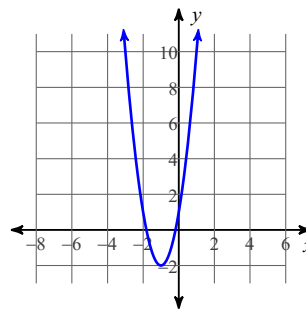
A)



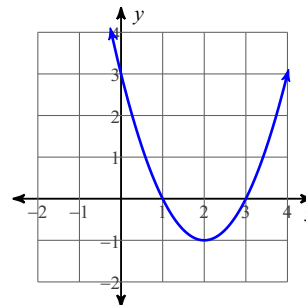
B)



C)

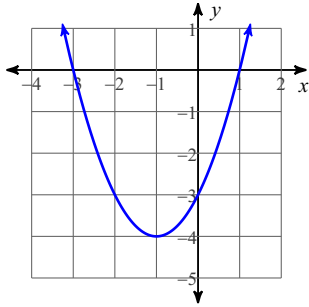


D)

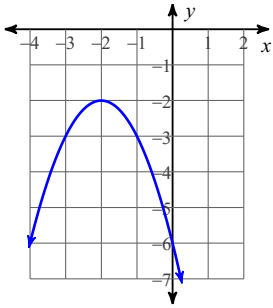


49) $y = x^2 + 2x - 3$

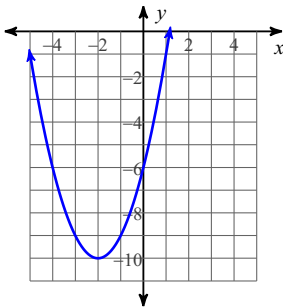
A)



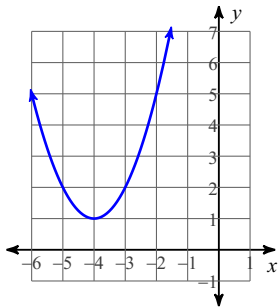
B)



C)

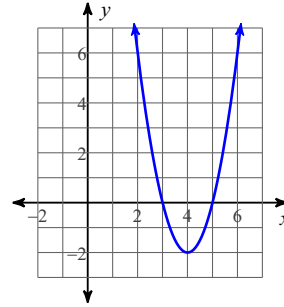


D)

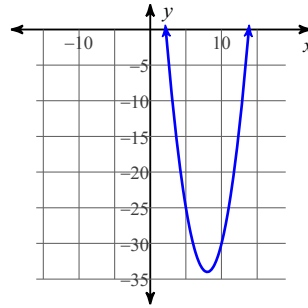


50) $y = -2x^2 - 8x - 12$

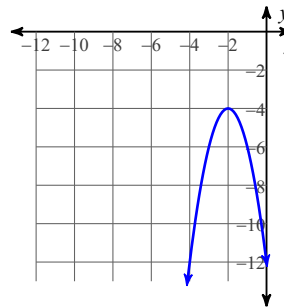
A)



B)



C)



D)

