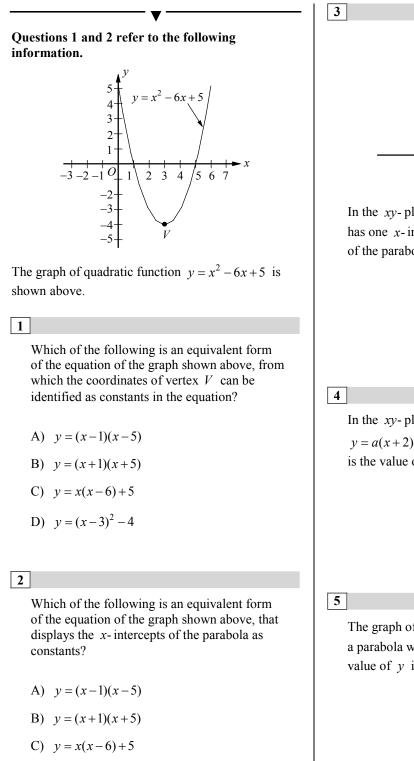
D)  $y = (x-3)^2 - 4$ 



## **Exercises - Graphs of Quadratic Equations**

The graph of the equation y = a(x-1)(x+5) is a parabola with vertex (h,k). If the minimum value of y is -12, what is the value of a?

O (4,0) In the xy- plane above, the parabola  $y = a(x-h)^2$ has one x-intercept at (4,0). If the y- intercept of the parabola is 9, what is the value of a?

y = a(x-h)

In the *xy*-plane, if the parabola with equation  $y = a(x+2)^2 - 15$  passes through (1,3), what is the value of *a*?