

Name: _____

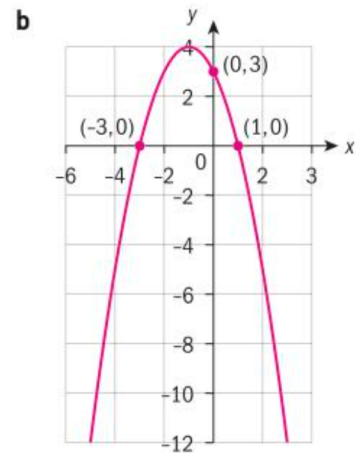
Show work needed to justify your answer.

Date: _____

HW: # 10b: Math IBSL - Standard 10 - Graphing Quadratic Functions

5 points

1. Use the information shown in the graph to find the quadratic function in standard (general) form



- 2 The graph of the quadratic function $y = f(x)$ has x -intercepts $(-1, 0)$ and $(3, 0)$. The function has a maximum value of 4.
- a** Find the equation of the axis of symmetry for the graph of $y = f(x)$.
 - b** Write down the coordinates of the vertex for the graph of $y = f(x)$.
 - c** Find an equation for f in the form $f(x) = a(x - h)^2 + k$, where a , h and k are constants to be determined.
 - d** A translation of the graph of $y = f(x)$ right 4 units and down 5 units results in the graph of $y = g(x)$. Find an expression for the function $g(x)$ in the form $f(x) = ax^2 + bx + c$.

