

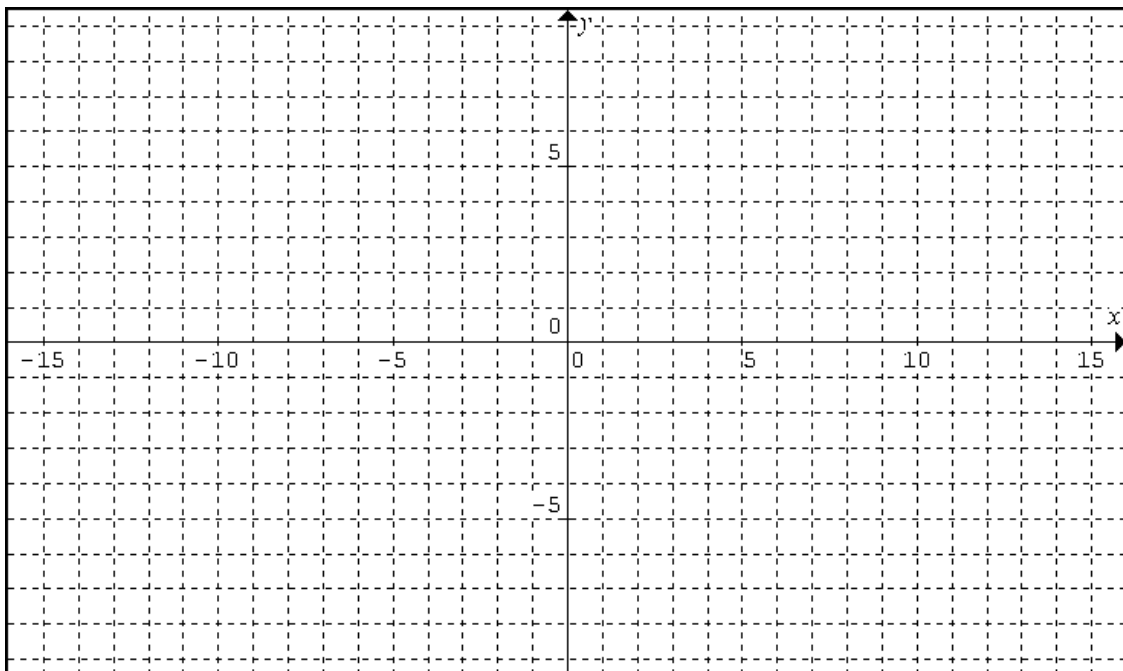
Practice Quiz #3A – Vertex Form

1. Consider the quadratic equation $y=2(x+3)^2-8$.
- a) State the **vertex** of this relationship. [1 mark]

 - b) By what value is the parabola stretched / compressed? [1 mark]

 - c) What is the “**step pattern**” for its graph? [1 mark]

 - d) Sketch the graph of the parabola on the grid provided below. [3 marks]



2. Write the equation, in vertex form, of a parabola that...

a) Has a vertex of (2, 5) and a step pattern of $-\frac{1}{4}$, $-\frac{3}{4}$, $-\frac{5}{4}$. [2 marks]

b) Has an axis of symmetry at $x = -1$, has one zero, opens downwards, and is wider than $y = x^2$. [2 marks]

c) Is represented by the graph below. [2 marks]

