(a) Use the **quadratic formula** to determine, **to the nearest tenth**, the roots of the equation:

2x2 + 1 = -4x.

(b) Determine the vertex of the parabola y = 2x2 + 4x + 1. (recall the x value of the vertex is given by x = -b/2a)

(c) Use parts a and b to **sketch** the graph of y = 2x2 + 4x + 1. You may wish to determine a few other “points that the parabola passes through” to obtain a more accurate graph. Note the line, x = -b/2a is the axis of symmetry. What does this give you?)