Finding the Equation of a Parabola

1) Find the equation of a quadratic function that has a maximum point at $(-1,4)$ and is congruent to $f(x) = \frac{1}{3}x^2$.

2) Find the equation of a quadratic function whose graph has vertex $(-2,-4)$ and passes through the point $(-3,-1)$.

NOTE:

3) Find the equation of a quadratic function whose graph has vertex $(3,-1)$ and x-intercept of 5.

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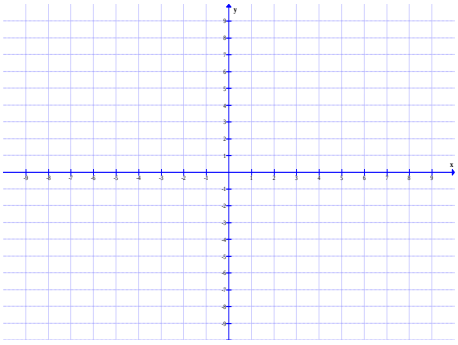
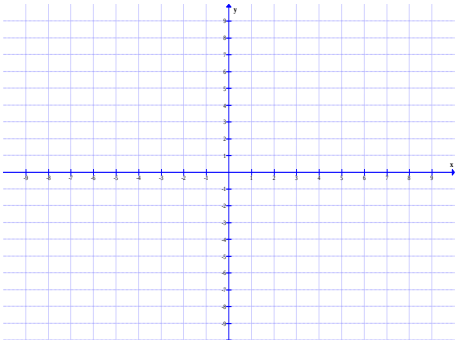
4) Find the equation of a quadratic function whose graph passes through the points: $(-3,-1),(1,-1),(-2,5)$.

5) Determine the equation for the parabola: