Name: _____

1. **[3 points]** Sketch the graph of the given function. Include all x and y intercepts.
   $f(x) = -x^2 - x + 2$

2. **[2 points]** Find the points of intersection (if any) of the given pair of curves.
   $y = x^2 - x - 5$ and $y = x - 1$

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3. Write an equation for the line with the given properties.

   (a) **[2 points]** Through $(-2, 4)$ and $(5, -3)$.

   (b) **[3 points]** Through $(1, -2)$ and perpendicular to the line $3x - 4y = 4$.