QUIZ 1 - MATH 112	Friday, September 6
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Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Find an equation for the line l passing through (-4,9) that is perpendicular to the line l' with equation x - 2y = 4;

- 2. Consider the equation $f(x) = -x^2 + 6x + 7$;
 - (a) Find the vertex of the corresponding parabola;
 - (b) Indicate the opening direction (with justification);
 - (c) Find the y-intercept and the x-intercept(s);
 - (d) Sketch the graph of the parabola, making sure to label all important points.