Completing the Square

1. Consider $g(x) = x^2 - 7x + 12$

   (a) Write $g(x)$ in vertex form.

   (b) Find the extreme value of g and identify it as a minimum or maximum.

   (c) Find x so that $g(x) = 0$.

2. Let $f(x) = 8x - 5 - 2x^2$.

   (a) Write $g(x)$ in vertex form.

   (b) Find the vertex of f.