1. **(3 points)** Calculate the following radicals, or state that they cannot be calculated:
   - $\sqrt{-81}$
   - $\sqrt[4]{1}$
   - $\sqrt[3]{-8}$
2. **(2 points)** A rectangular garden is 10 feet wide and 30 feet long.
   - What is its perimeter?
   - What is its area?
3. **(3 points)** Factor the polynomial $x^2 - 9x + 14$.
4. **(3 points)** Simplify the rational expression $\frac{7}{2x-4} - \frac{1}{x}$.
5. **(4 points)** Solve the equation $9y - 3(y - 1) = 6 + y$.