

§ 2.1 Adding & Subtracting Polynomials**Thinking and Inquiry**

Sarah owns a company that sells gift wrap and cards. The function $R(x) = -9x^2 + 60x + 1450$ models her company's revenue, for x weeks. The function $E(x) = 2x^2 - 10x + 25$ models the company's production expenses.

- a) Write the simplified form of the profit function, $P(x) = R(x) - E(x)$
- b) How much profit will the company make after 4 weeks?