Level 2

Simplify. Give an exact answer for each problem:

(a) \(\sqrt{75} + \sqrt{48}\)

(b) \(\sqrt{10} \times \sqrt{8}\)

A ladder 10 ft long leans against a wall. The foot of the ladder is 6 ft from the base of the wall. How high up the wall does the top of the ladder rest?
\[-4a^2b^3(10a^4b^5)\]

Subtract the following polynomials.

\[6x^3 - 2x^2 + 2 \quad \text{and} \quad -2x^3 + 7x^2 - 5\]

Multiply the following polynomials.

\[(2x + 3)(x^2 - 3x - 1)\]