

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?

Simplify.

$$-4a^2b^3(10a^4b^5)$$

Subtract the following polynomials.

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

Multiply the following polynomials.

$$(2x + 3)(x^2 - 3x - 1)$$