Simplify the expressions completely.

1. A) $-5(3x^2+10x-5)$

B) $-(3xy^2+6y-6)$

2. A) (x+7)(x+9)

B) (4x-6)(x+14)

3. A) (5a-4b)(3x+11)

B) (5x-3y)(2x+9y)

4. A) $(x+3)(x^2+2x+1)$

B) $-(4a+11)(2x^2+3x-4)$

Part B: Using Polynomials

Answer the question completely.

Henrietta has a fish tank that is a rectangular prism. The front face is twice as long as the tank is tall.

The depth of the tank is just 12 inches. **Draw** the fish tank. **Write** expressions to describe the lengths of the sides. Given the *volume* is 1176 in², **find** the *height*.