

Name

Directions: Show your work for credit.

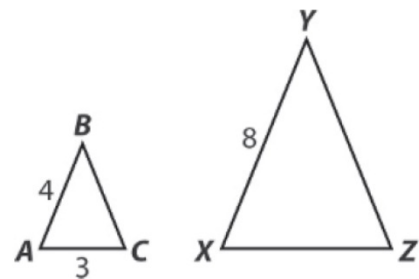
1. A produce stand sells a basket of 12 apples for \$6. If the unit price of an apples is the same, what is the price for a basket of 18 apples?

Show your work

- A \$2 C \$18
B \$9 D \$36

2. Triangles ABC and XYZ below are similar. What is the length of \overline{XZ} ?

Show your work



- A 1.5 units C 6 units
B 3 units D 7 units

3. Which is equivalent to $(4^2)^{-3}$

Show your work

- A) $4^{-6} \cdot 4^1$ C) 4^1
B) $\frac{1}{4}$ D) $\frac{1}{4^6}$



4. Solve the following equation for the value of x :

$$2x + 6 = 3(x + 2) - x$$

Show your work

- A** $x = 2$
- B** $x = 6$
- C** No Solution
- D** An infinite amount of solutions

5. Simplify the expression. Write your answer in standard form.

$$\frac{(3-5)^6 \cdot (8-10)^5 \cdot (-2)^0}{(-13+11)^9}$$
