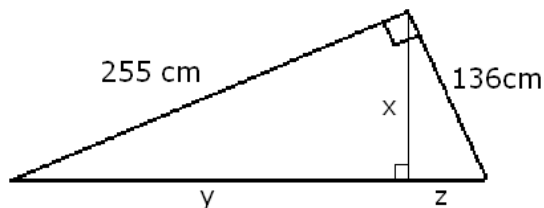


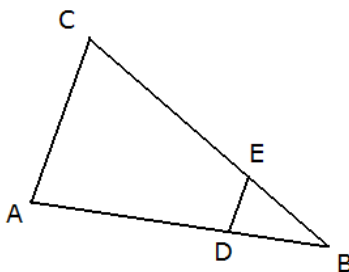
Review Problems

For problems 1-25, please see Quiz 9 Review.

26. Find the exact value of x , y , and z based on the picture below.



27. A 6 feet tall person is standing 15 feet away from a street light that is 30 feet tall. How long is his shadow?
28. a) Compute the area of a triangle with sides 10 cm, 10 cm, and 16 cm.
b) Compute the area of a triangle that is similar to the triangle in part a), but its sides are twice as long.
29. Consider the picture shown below. Line segments AC and DE are parallel. How long is AD if the following is given: $AC = 10$, $DE = 2$, and $DB = 3$



30. Expand $(a + b)^7$
31. Compute the coefficient of x^5y^{15} in the expansion of $(x + y)^{20}$.

Answers

- 26.) $x = 120$ cm $y = 225$ cm and $z = 64$ cm 27.) 3.75 feet $= \frac{15}{4}$ feet 28.) a) 48 cm² b) 192 cm²
- 29.) 12 30.) $a^7 + 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6 + b^7$ 31.) $\binom{20}{5} = 15504$