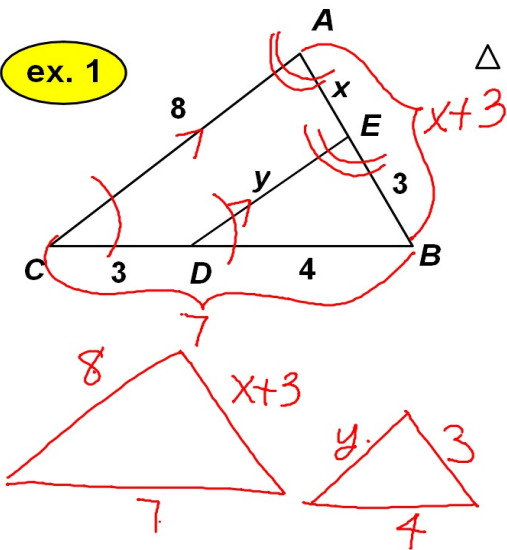


7 - 4 Similar Triangles

Std. 5.0

Jan 6

ex. 1



$\triangle ABC \sim \triangle EBD$ find x and y

AA ~

$$\frac{4}{7} = \frac{3}{x+3}$$

$$\frac{4}{7} = \frac{y}{8}$$

$$4x + 12 = 21$$

$$4x = 9$$

$$x = \frac{9}{4}$$

$$2\frac{1}{4}$$

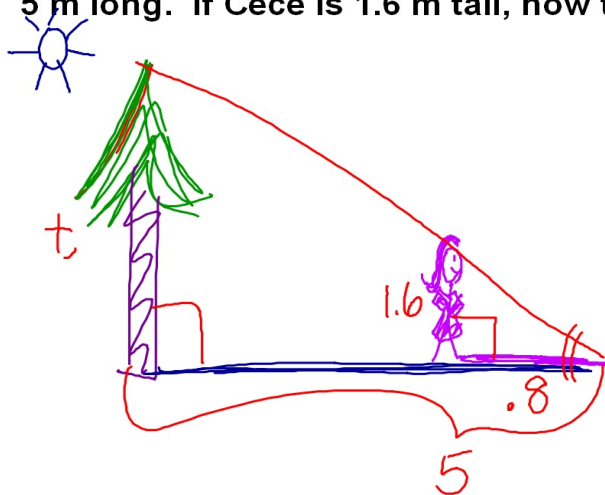
$$7y = 32$$

$$y = \frac{32}{7}$$

$$4\frac{4}{7}$$

ex. 2

Cece is standing in line with the shadow of a tree. Her shadow is 0.8 m long and the tree's shadow is 5 m long. If Cece is 1.6 m tall, how tall is the tree?



$$\frac{1.6}{t} = \frac{.8}{5}$$

$$.8t = 8.0$$

$$8t = 80$$

$$t = 10 \text{ m}$$

ex. 3

Given: $\angle 1$ and $\angle 2$ are right angles

Prove: $\triangle RSQ \sim \triangle RTP$ and $\frac{RS}{RT} = \frac{SQ}{TP}$

