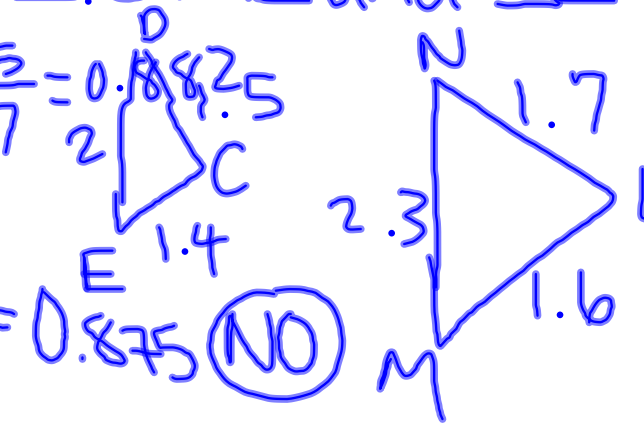
$\triangle CDE$ and $\triangle LMN$



$\frac{CD}{LN} = \frac{1.5}{1.7} = 0.882 \neq 0.875$

$\frac{ED}{MN} = \frac{2}{2.3} = 0.869$

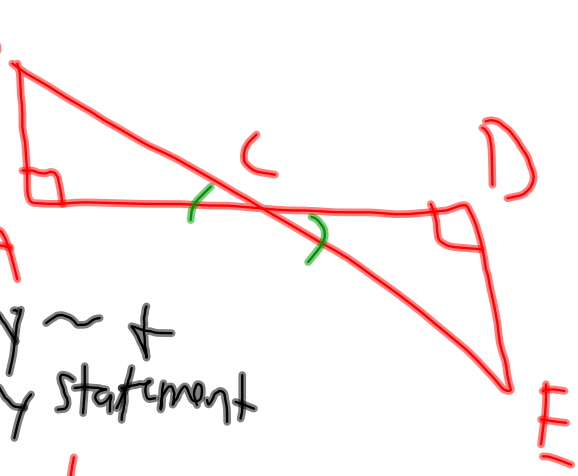
$\frac{EC}{ML} = \frac{1.4}{1.6} = 0.875$ (NO)

7.3 AA, SSS, SAS

Angle-Angle Post.

if 2 ∠'s of a △ are ≅ to 2 ∠'s of another △, then the △'s are ~.

Ex:



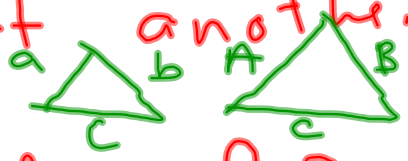
Explain why ~ & a similarity statement

∠A ≅ ∠D since they're both rt.

∠BCA ≅ ∠ECD since they're vert. ∠'s.

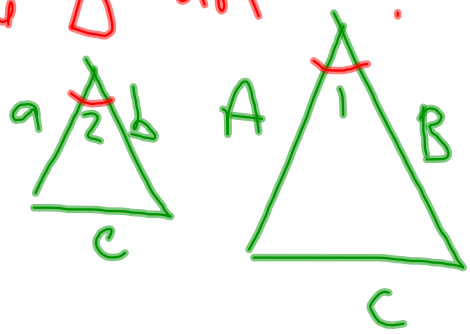
△ABC ~ △DEC by AA.

SSS: if 3 sides of 1 △ are proportional to 3 sides of another △, then they are ~.



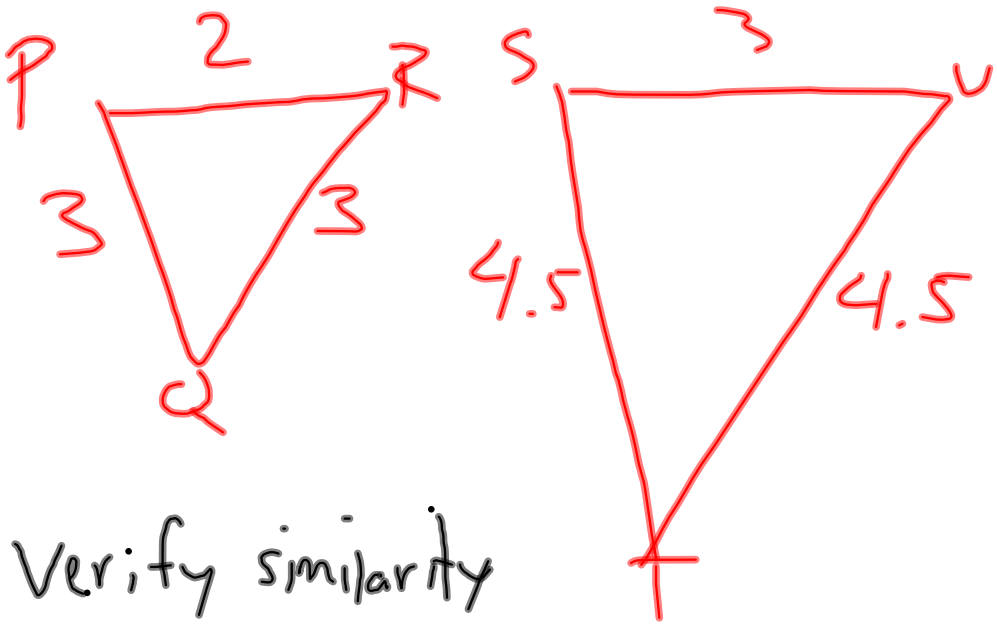
$\frac{a}{A} = \frac{b}{B} = \frac{c}{C}$

SAS: if 2 sides of 1 △ are proportional to 2 sides of another △ and the included ∠'s are ≅, then the △'s are ~.



$\angle 1 \cong \angle 2$

$\frac{a}{A} = \frac{b}{B}$

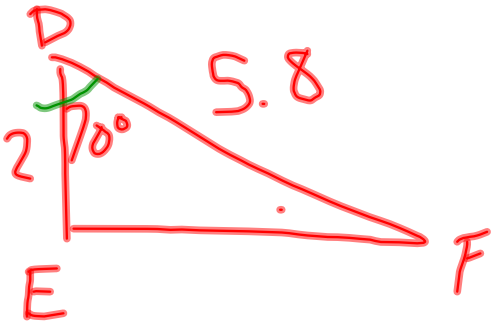


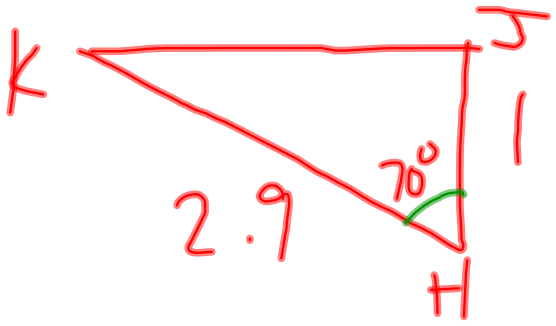
Verify similarity

$$\frac{PQ}{ST} = \frac{QR}{TU} = \frac{RP}{US}$$

$\frac{3}{4.5} = \frac{3}{4.5} = \frac{2}{3}$

$\overline{.6}$ $\overline{.6}$ $\overline{.6}$ (Its)





verify similarity

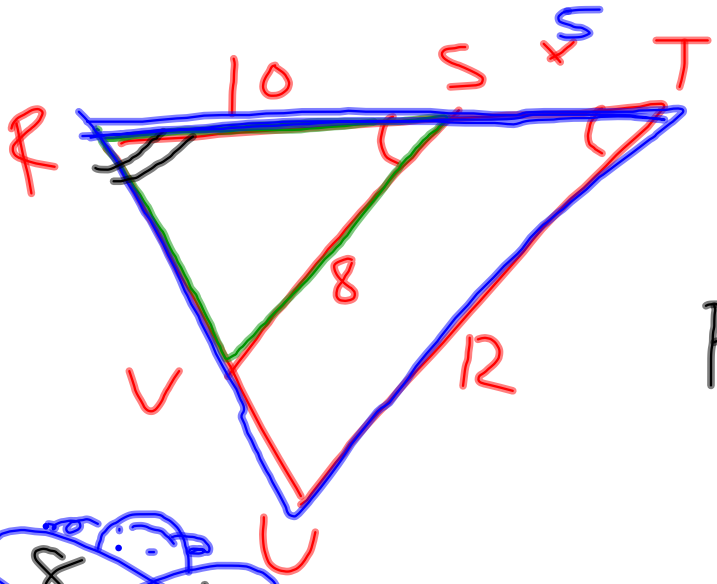
$\angle D \cong \angle H$

$$\frac{DE}{JH} = \frac{DF}{KH}$$

$$\frac{2}{1} = \frac{5.8}{2.9}$$

$2 = 2$

Yes



Find RT

15

$$\frac{8}{12} = \frac{10}{10+x}$$

$$\frac{8(10+x)}{8} = \frac{120}{8}$$

$$10+x = 15$$

$$-10 \quad -10$$

$$x = 5$$

p. 474

1-6, 10-16, 19-24