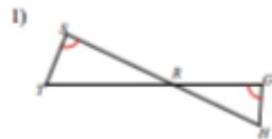


Good morning: attach half sheet to notes, then answer #1-8

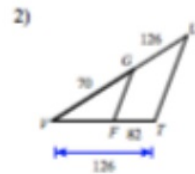
Honors Geometry

Similar Triangle Criteria

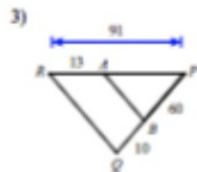
Are the triangles in each pair similar? If so, state how you know they are similar (SSS-, SAS-, or AA-) and complete the similarity statement.



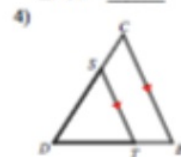
$\triangle RST \sim$ _____



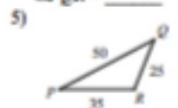
$\triangle FUT \sim$ _____



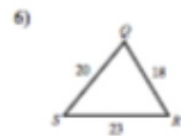
$\triangle PQR \sim$ _____



$\triangle DCB \sim$ _____



$\triangle FED \sim$ _____

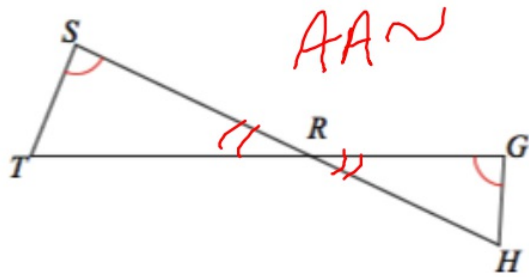


$\triangle KJ \sim$ _____

****You will need your textbook today go get it NOW don't wait til later**

Reminders:
assessment
delayed to Wed.

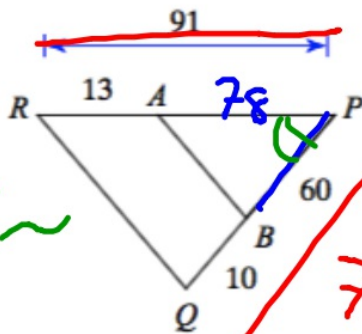
1)



AA~

$\Delta RST \sim \Delta RGH$

3)



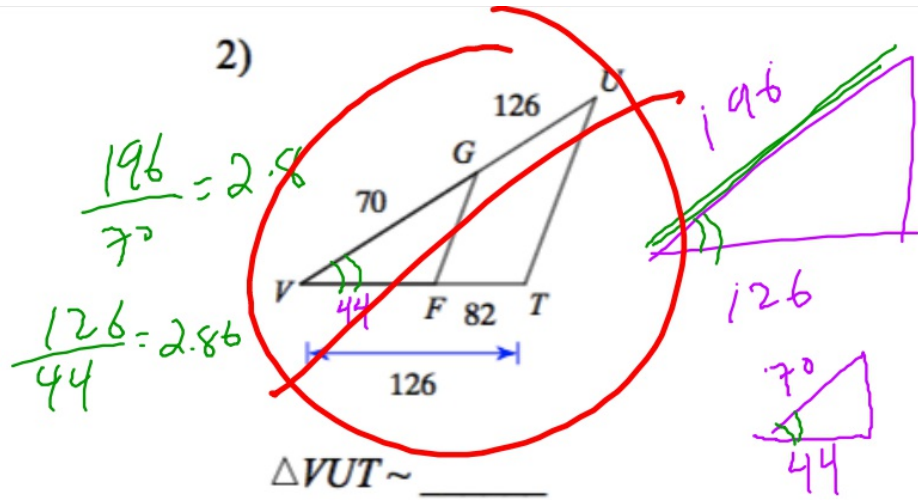
SAS~

$\Delta PQR \sim \Delta PBA$

$$\frac{91}{78} = 1.16$$

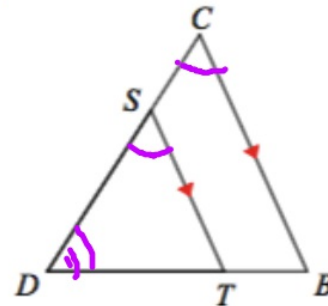
$$\frac{70}{60} = 1.16$$

2)



$\Delta VUT \sim$ _____

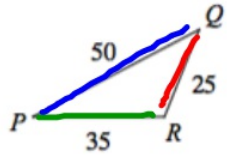
4)



AA~

$\Delta DCB \sim \Delta DST$

5)

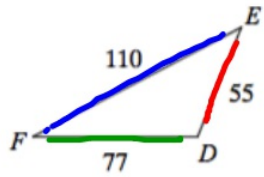


$$\frac{55}{25} = 2.2$$

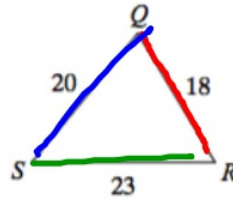
$$\frac{110}{50} = 2.2$$

$$\frac{77}{35} = 2.2$$

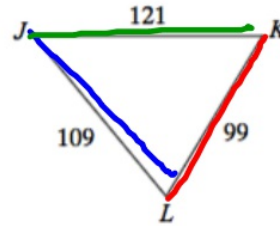
$\triangle FED \sim \triangle PQR$ SSS~



6)



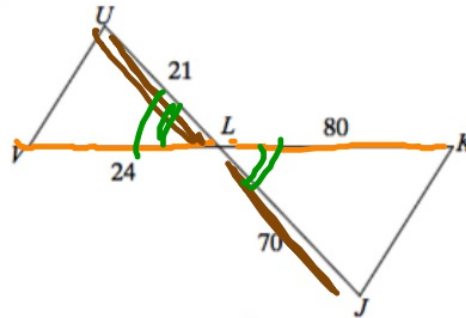
$$\frac{99}{18} \neq \frac{109}{20}$$



Note ~

$\triangle LKJ \sim$ _____

8)

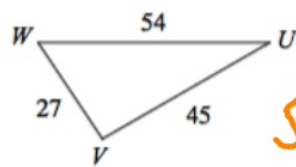


$\triangle LKJ \sim \triangle LVU$

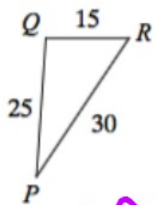
$$\frac{70}{21} = \frac{80}{24} = 3.\bar{3}$$

SAS~

7)



Scale factor: 1.8



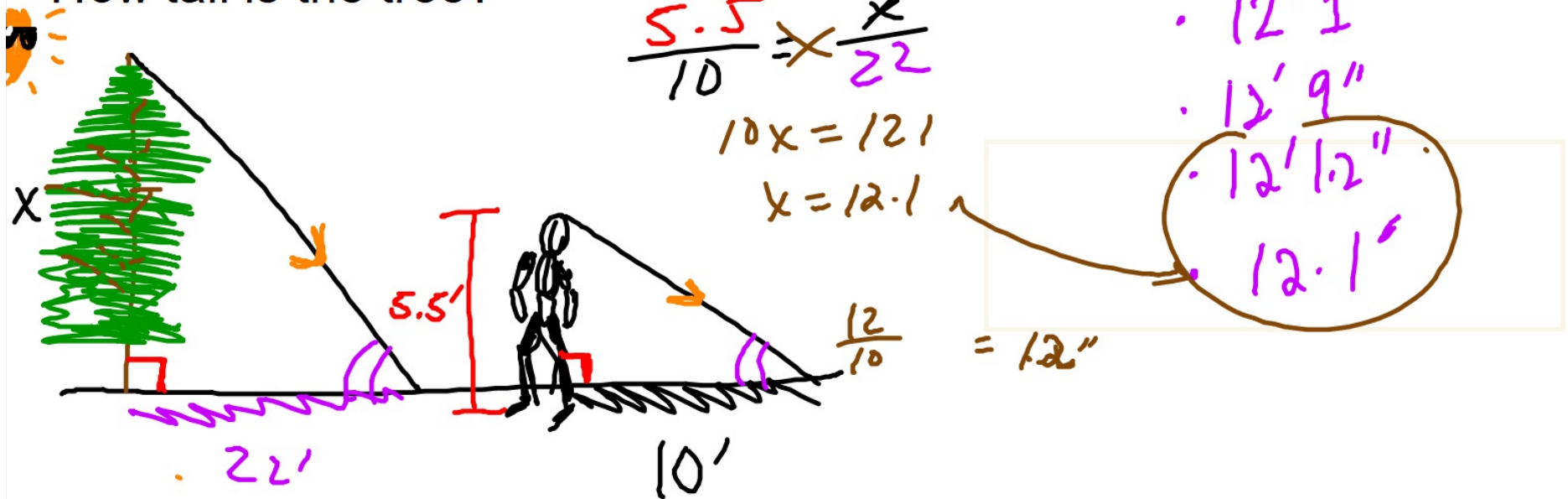
SSS~

$\triangle UVW \sim \triangle PQR$

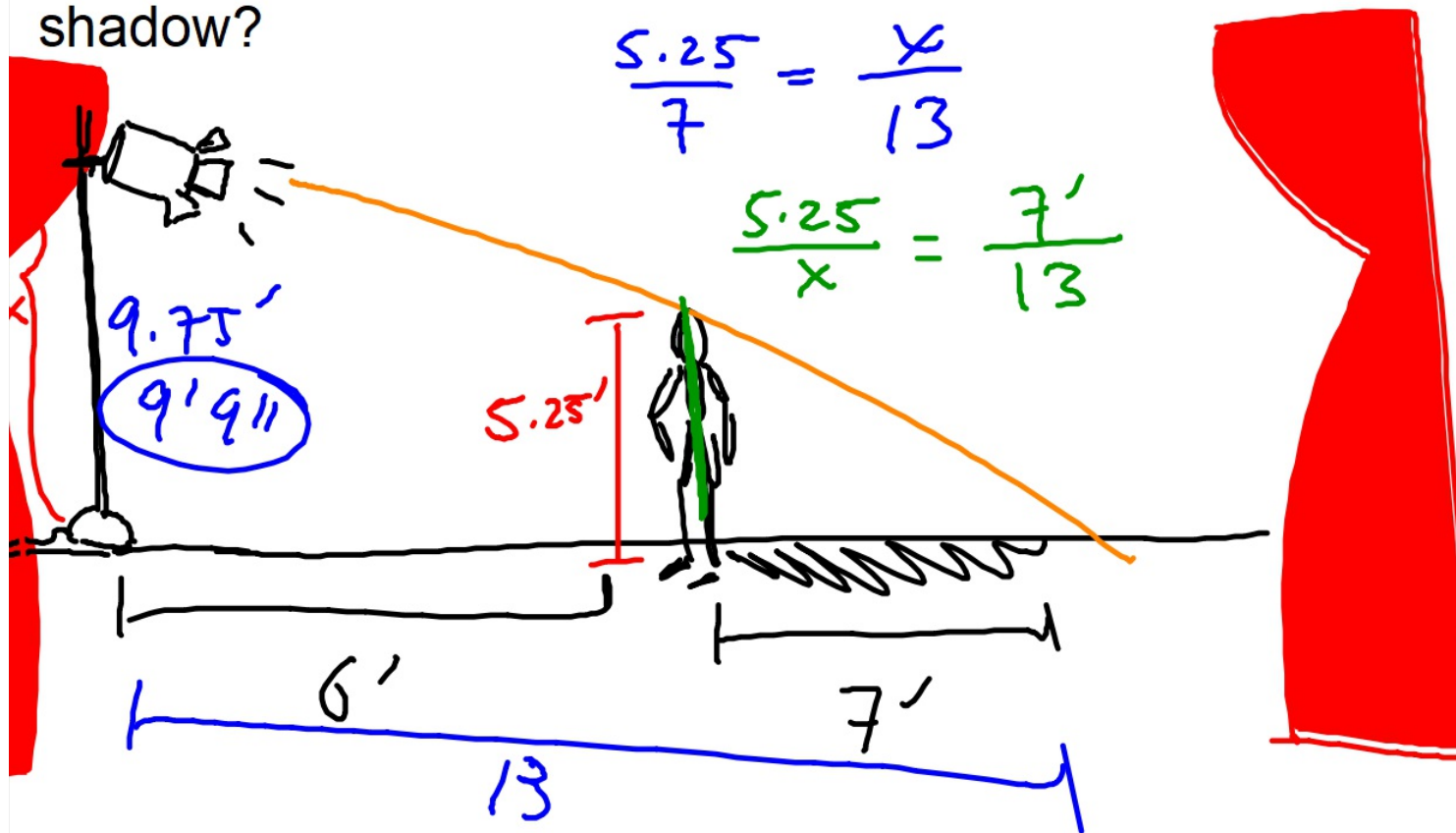
Indirect Measurement

NOTES

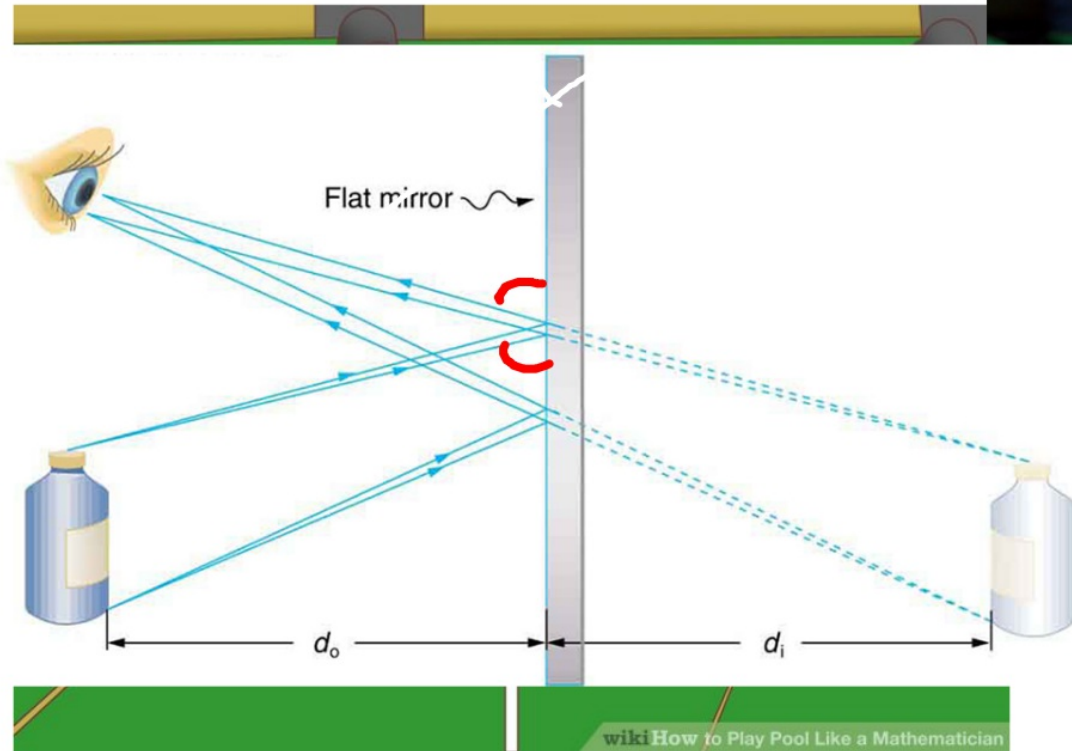
At sunset, a tall tree casts a shadow that measures 22 feet long.
At the same time, a 5'6" person casts a 10 foot shadow.
How tall is the tree?



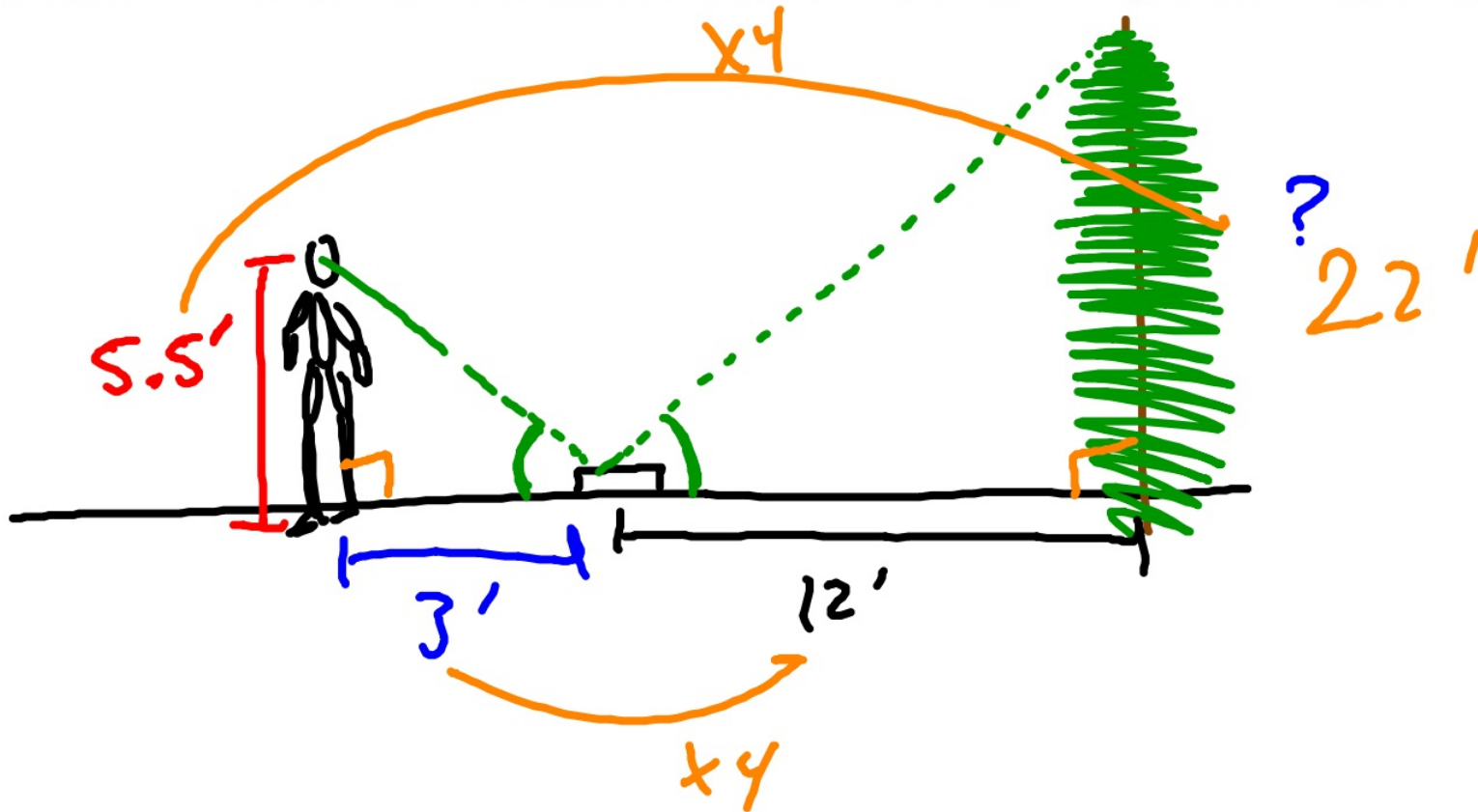
A stage lamp hangs above a stage. A 5'3" actor stands 6 feet from the spot on the floor directly below the lamp. How high above the stage floor should the lamp be in order for the actor to cast a 7' shadow?



Angle of Incidence/Angle of Reflection



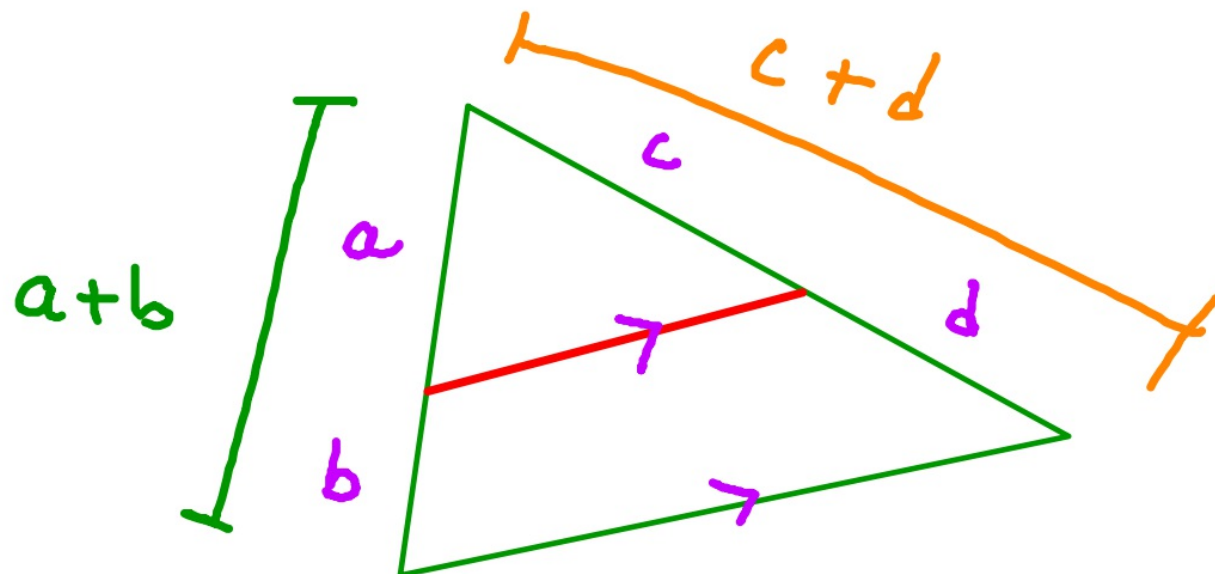
A mirror is placed 12 feet from the base of a Douglas Fir. A student whose eye is 5'6" above the ground walks back from the mirror until she sees the top of the tree in the mirror. She is 3 feet from the mirror when she stops. How tall is the fir?



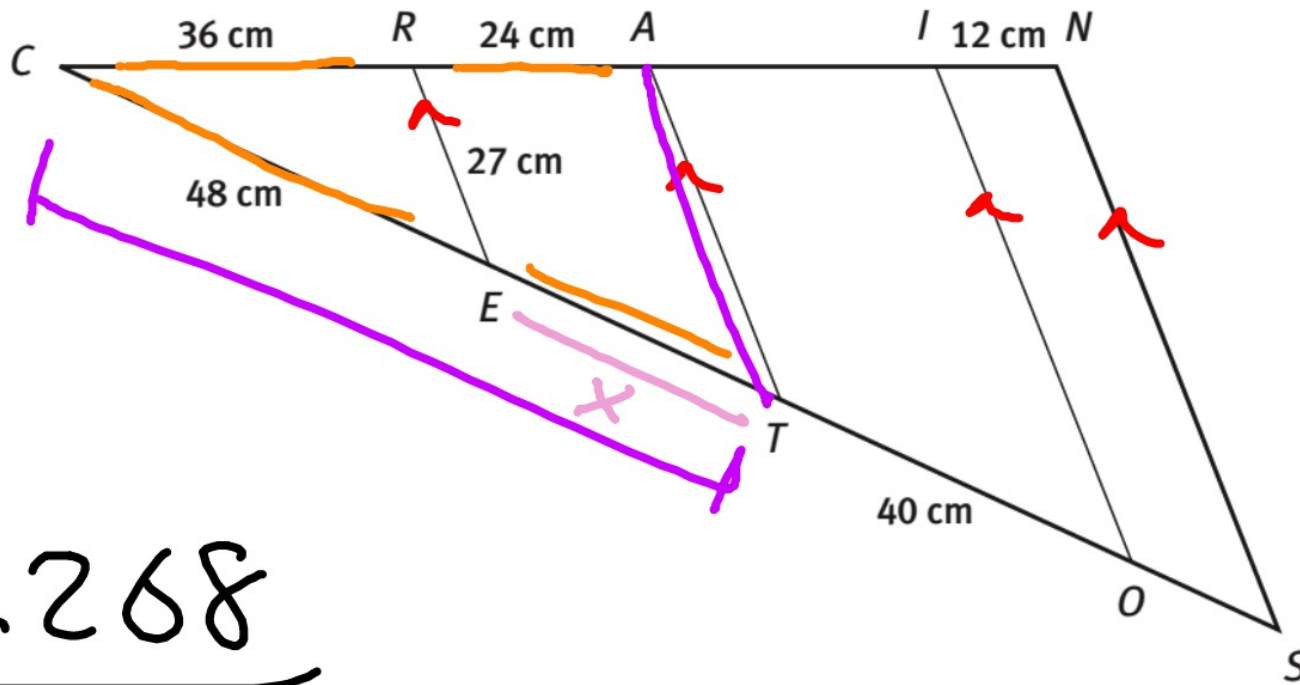
The Triangle Proportionality Theorem

If parallel,

$$\frac{a}{b} = \frac{c}{d}$$



11. Given: $\overline{RE} \parallel \overline{AT} \parallel \overline{IO} \parallel \overline{NS}$. Determine each length. Show your work.



$$\frac{ET}{24} = \frac{48}{x}$$

$$x = 32$$

AI
30

AT
45

OS
16

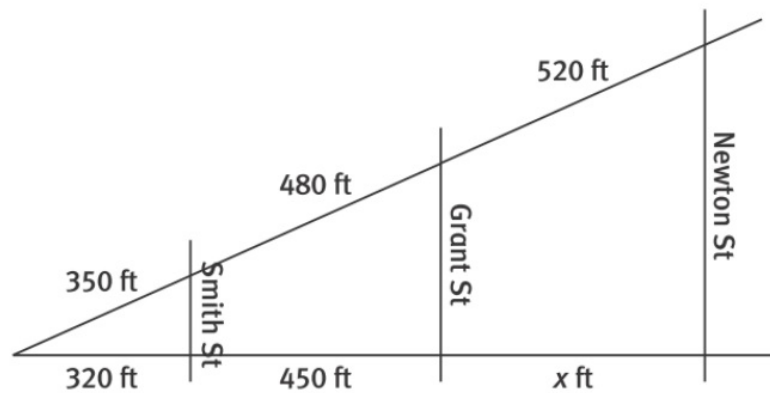
IO
67.5

NS
26.5

p. 268

~~p. 268??~~

- 12. Attend to precision.** A land developer is using a surveyor to measure distances to ensure that the streets in the new community are parallel.



- a.** If Grant Street and Newton Street are parallel, what is the value of x ? Support your answer.
- b.** Are Smith Street and Grant Street parallel? Support your answer.

HW

p. 264 #2-5

p. 270 #16

Assessment: Wednesday 1/24