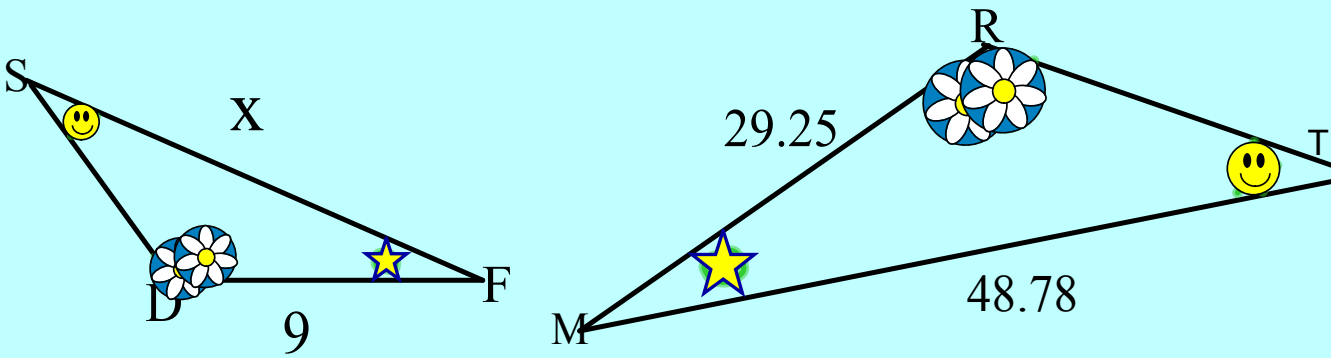




Similar Triangles



- i) Write the Similarity Statement
- ii) Ratios
- iii) Fill in ratios
- iv) solve for "x"

$$\triangle SDF \sim \triangle TRM$$

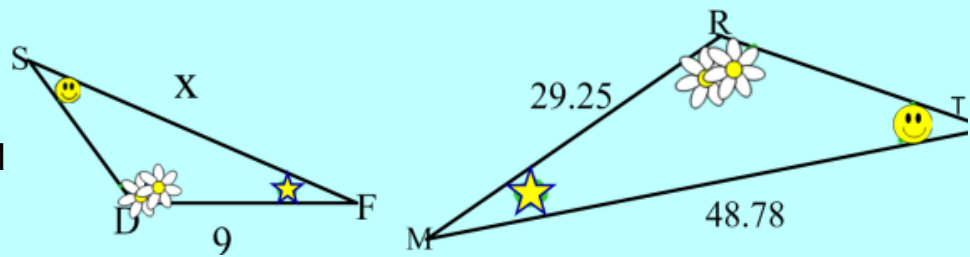
$$\frac{SD}{TR} = \frac{DF}{RM} = \frac{SF}{TM}$$

$$\frac{\quad}{29.25} = \frac{9}{48.78} = \frac{X}{\quad}$$

$$29.25X = 439.02$$

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$$X=15.0$$



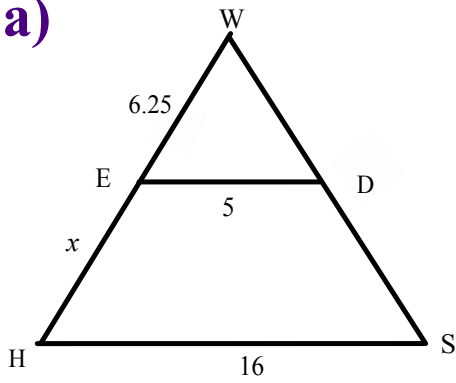
Try This !!

Solve for x .

Indicate the angles that are equal.



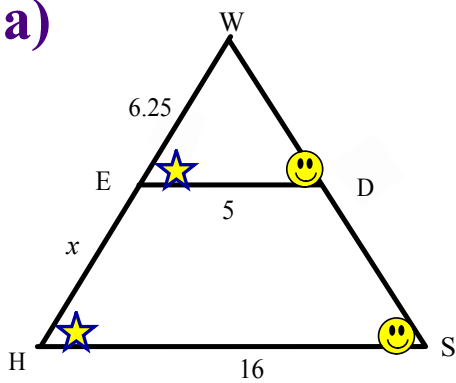
a)



Try This !!

Solve for x .

a)



Indicate the angles that are equal.

$$\triangle WED \sim \triangle WHS$$

$$\frac{WE}{WH} = \frac{ED}{HS} = \frac{WD}{WS}$$

$$\frac{6.25}{x + 6.25} = \frac{5}{16} = \underline{\hspace{1cm}}$$

$$5(x + 6.25) = 100$$

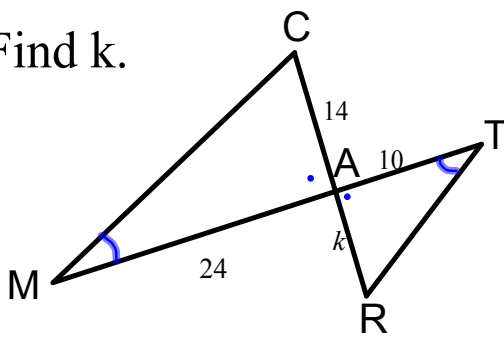
$$5x + 31.25 = 100$$

$$5x = 100 - 31.25$$

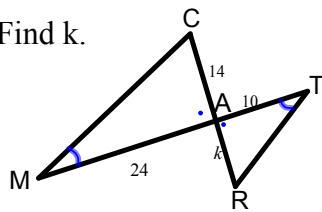
$$5x = 68.75$$

$$x = 13.75$$

Find k .



Find k.



$$\triangle MCA \sim \triangle TRA$$

$$\frac{MC}{TR} = \frac{CA}{RA} = \frac{MA}{TA}$$

$$\frac{14}{k} = \frac{24}{10}$$

$$24k = 140$$

$$k = 5.8$$

