

Draw each of the following.

1. Right Isosceles
2. Equilateral Scalene
3. Equiangular Equilateral

Mar 19-8:07 AM

2. $r = 4$

5. Use equation

$$(x-h)^2 + (y-k)^2 = r^2$$

Center (h, k)

Circumference

$$C = 2\pi r$$

$$C = \pi d$$



Area 9π

Area

$$A = \pi r^2$$



Mar 19-8:22 AM

Similar Triangles

Ratio - a comparison between two values - written as a fraction

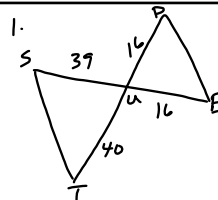
$$\frac{1}{2} \quad \frac{5}{10} \quad \frac{5}{15}$$

Proportions - comparison between two ratios $\frac{a}{b} = \frac{c}{d}$

Determine if triangles are similar -

- ① Proportions equal
- ② Angles

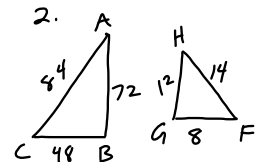
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$\Delta UTS \sim \Delta UDE$

$$\frac{16}{40} \neq \frac{16}{39}$$

not similar

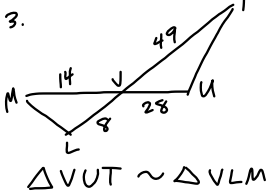


$\Delta CBA \sim \Delta FGH$

$$\frac{48}{8} \neq \frac{72}{12}$$

$$\frac{8}{12} = \frac{48}{72}$$

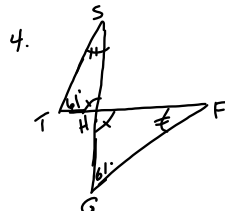
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$\Delta VUT \sim \Delta VLM$

$$\frac{28}{49} \neq \frac{8}{14}$$

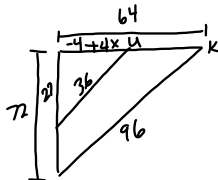
$$392 = 392$$



$\Delta HGF \sim \Delta HTS$

AAA

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$$\frac{4}{36} \neq \frac{4x}{96}$$

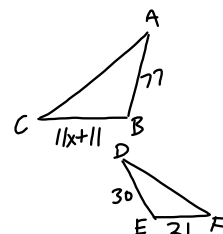
$$96(-4+4x) = 2304$$

$$-384 + 384x = 2304$$

$$+384 \quad +384$$

$$\frac{384x}{384} = \frac{2688}{384}$$

$$x = 7$$



$$\frac{11x+11}{77} \neq \frac{30}{21}$$

$$231x + 231 = 2310$$

$$-231 \quad -231$$

$$\frac{231x}{231} = \frac{2079}{231}$$

$$x = 9$$

Mar 19-8:39 AM



Mar 19-10:11 AM