Draw each of the following.

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

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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

$A=\pi r^2$

9π

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Similar Triangles

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

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

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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1. S, 39, 16, P, U, 16, E, 40, T

$\triangle UTS \sim \triangle UDE$

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

not similar

2. A, 84, 72, C, 48, B; H, 14, 12, G, 8, F

$\triangle CBA \sim \triangle FGH$

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

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

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3. T, 49, 14, V, M, 28, U, 8, L

$\triangle VUT \sim \triangle VLM$

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

$392=392$

4. S, H, 61°, T, H, F, 61°, G

$\triangle HGF \sim \triangle HTS$

AAA

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64, $-4+4x$, U, K, 72, 36, 96

$\frac{-4+4x}{36} \times \frac{64}{96}$

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

$-384+384x=2304$

$+384 \quad +384$

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

$x=7$

A, 77, C, $11x+11$, B, D, 30, E, 21, F

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

$231x+231=2310$

$-231 \quad -231$

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

$x=9$

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