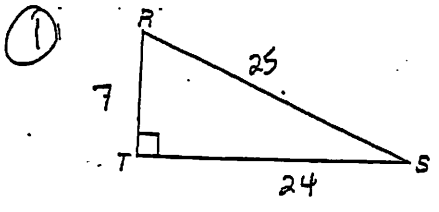
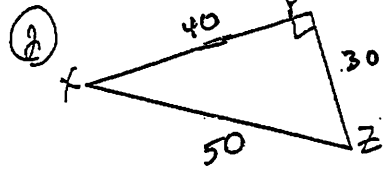


Geo HW Trig #1: Trig Ratios

For each Δ , identify the 3 basic trigonometric ratios for both \angle 's. (Answers as fractions)



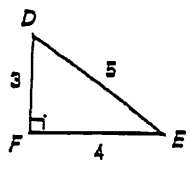
$\sin R = \underline{\hspace{2cm}}$ $\sin S = \underline{\hspace{2cm}}$
 $\cos R = \underline{\hspace{2cm}}$ $\cos S = \underline{\hspace{2cm}}$
 $\tan R = \underline{\hspace{2cm}}$ $\tan S = \underline{\hspace{2cm}}$



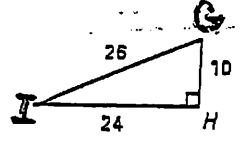
Trig Ratios for $\angle X$: Trig Ratios for $\angle Z$

Use the figures to find each ratio. Express answers in simplest terms. (Reduce fractions!)

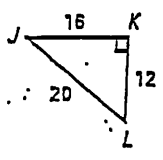
③ $\tan D = \underline{\hspace{2cm}}$
 $\sin E = \underline{\hspace{2cm}}$
 $\cos E = \underline{\hspace{2cm}}$
 $\cos D = \underline{\hspace{2cm}}$



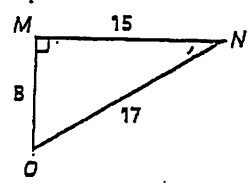
④ $\tan G = \underline{\hspace{2cm}}$
 $\sin I = \underline{\hspace{2cm}}$
 $\sin G = \underline{\hspace{2cm}}$
 $\cos I = \underline{\hspace{2cm}}$



⑤ $\cos L = \underline{\hspace{2cm}}$
 $\sin J = \underline{\hspace{2cm}}$
 $\sin L = \underline{\hspace{2cm}}$
 $\tan J = \underline{\hspace{2cm}}$



⑥ $\tan O = \underline{\hspace{2cm}}$
 $\sin O = \underline{\hspace{2cm}}$
 $\tan N = \underline{\hspace{2cm}}$
 $\cos N = \underline{\hspace{2cm}}$



Draw a picture to help you.

⑦ In ΔABC , $\angle C$ is a right angle, $BC = 7$ and $AB = 13$. Find $\cos B$ and $\tan A$ - express each as a ratio

⑧ In right triangle XYZ , $\angle Z$ is a right angle and $\tan X = \frac{8}{15}$. Write $\sin X$ and $\tan Y$ as ratios.

(9) Determine the exact ratios for the following:

$$\sin 60^\circ =$$

$$\cos 60^\circ =$$

$$\tan 45^\circ =$$

$$\cos 45^\circ =$$

$$\tan 30^\circ =$$

