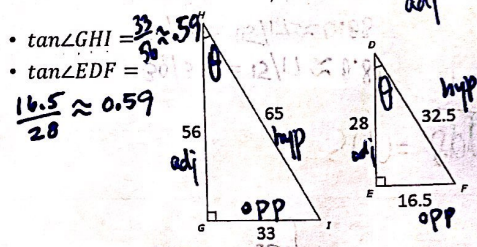


Similar Triangles

- corresponding angles are congruent
- corresponding sides are proportional

$\Delta HGI \sim \Delta DEF$



$\tan \angle GHI = \frac{33}{56} \approx 0.59$
 $\tan \angle EDF = \frac{16.5}{28} \approx 0.59$

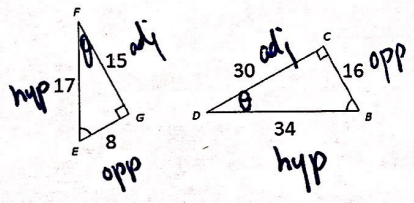
$\frac{33}{16.5} = \frac{56}{28} = \frac{65}{32.5}$

* copy toady

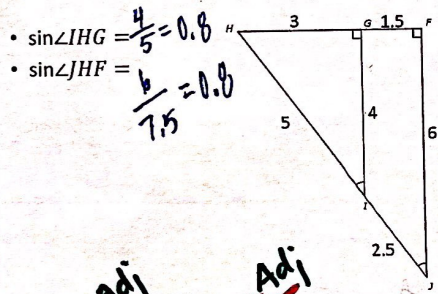
$\cos = \frac{\text{adj}}{\text{hyp}}$

$\Delta EFG \sim \Delta BDC$

- $\cos \angle GFE = \frac{15}{17} \approx 0.88$
- $\cos \angle CDB = \frac{30}{34} = \frac{15}{17} \approx 0.88$

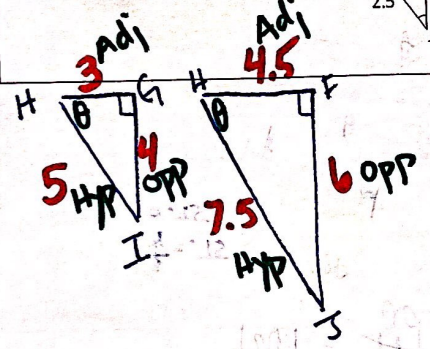


$\Delta HGI \sim \Delta HFJ$



$\sin \angle IHG = \frac{4}{5} = 0.8$
 $\sin \angle JHF = \frac{6}{7.5} = 0.8$

$\sin = \frac{\text{opp}}{\text{hyp}}$



$$\cos = \frac{\text{adj}}{\text{hyp}}$$

$\Delta HGI \sim \Delta DEF$

- $\cos \angle GIH = \frac{33}{65} \approx 0.51$
- $\cos \angle EFD = 0.51$

$$\tan = \frac{\text{opp}}{\text{adj}}$$

$\Delta HGI \sim \Delta HFJ$

- $\tan \angle HIG = \frac{3}{4} = 0.75$
- $\tan \angle HJF = 0.75$

$$\sin = \frac{\text{opp}}{\text{hyp}}$$

$\Delta EFG \sim \Delta BDC$

- $\sin \angle GEF = 0.88$
- $\sin \angle CBD = \frac{30}{34} = \frac{15}{17} \approx 0.88$

Handwritten notes and scribbles on the right page, including some faint mathematical expressions and symbols.