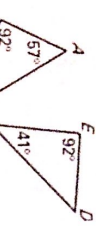


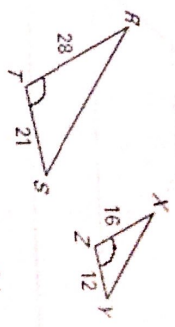
5) Explain why the triangles are similar and write a similarity statement.

a) $\triangle ABC \sim \triangle NO$ by _____

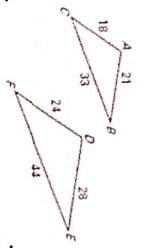
b) $\triangle RST \sim \triangle XYZ$ by SAS



$92 + 57 = 149$
 $180 - 149 = 31$
 $31 \neq 41$



b) $\triangle ABC \sim \triangle DEF$ by SSS

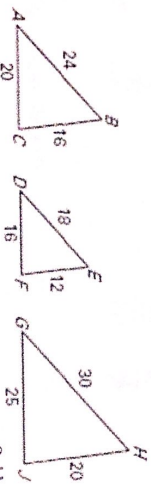


$\frac{18}{24} = \frac{21}{28} = \frac{33}{44}$
 $\frac{3}{4} = \frac{3}{4} = \frac{3}{4}$

$\frac{28}{16} = \frac{21}{12}$
 $\frac{35}{20} = \frac{35}{20}$
cross multiply
 $330 = 330$

6) Determine which of the triangles ($\triangle DEF$ or $\triangle GHJ$) is similar to $\triangle ABC$

$\frac{20}{16} \neq \frac{16}{12}$



$\frac{24}{30} = .8 = \frac{4}{5}$
 $\frac{16}{20} = .8 = \frac{4}{5}$

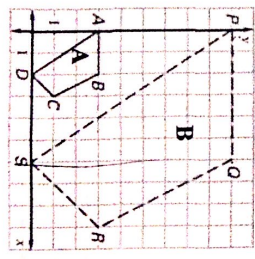
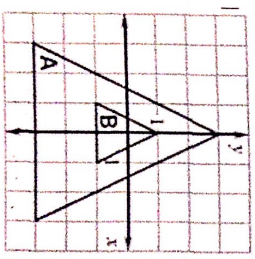
$\frac{20}{25} = .8 = \frac{4}{5}$

a) Complete the similarity statement to $\triangle ABC \sim \triangle GHJ$

b) Find the Scale Factor = $\frac{4}{5}$ of GHJ

7) Determine whether the dilation from Figure A to Figure B is a reduction or an enlargement. Then find its scale factor and simplify if possible.

a)



$\frac{1}{2} = \frac{3}{6}$