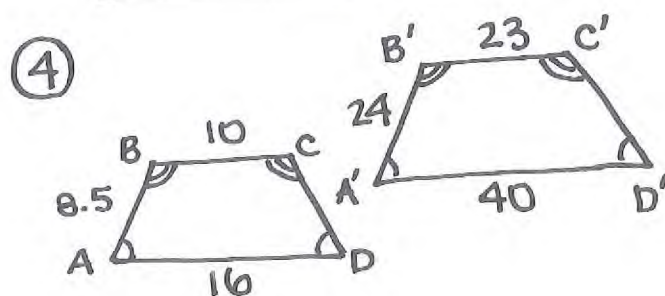
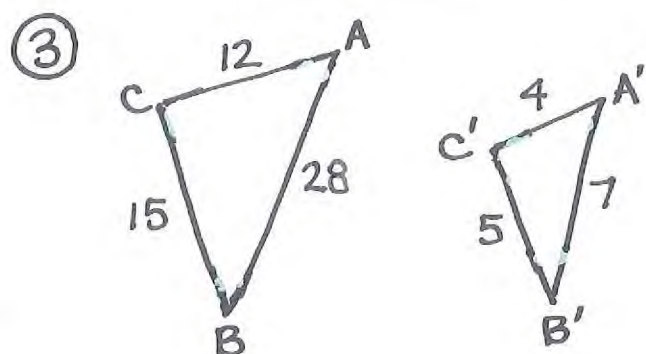
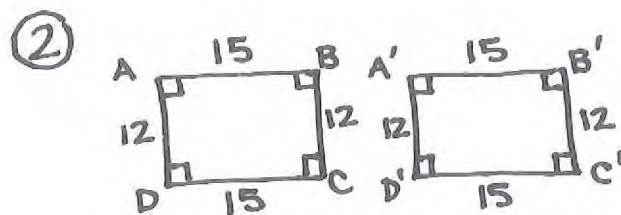
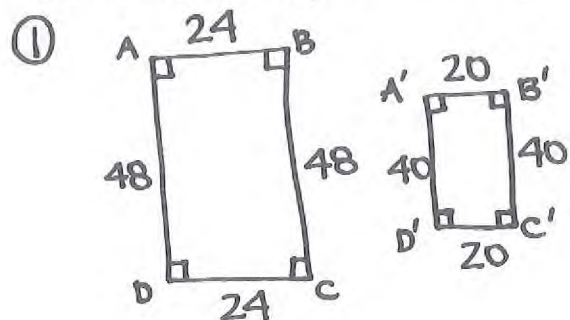


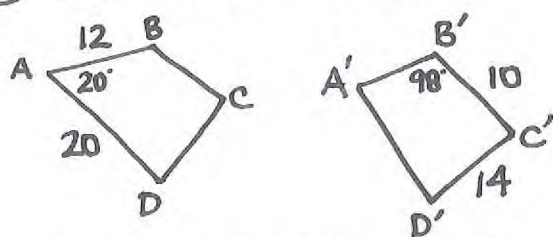
# Congruence vs Similarity Practice

#35

State if the polygons are congruent, similar, or neither. If they are similar, state the scale factor.



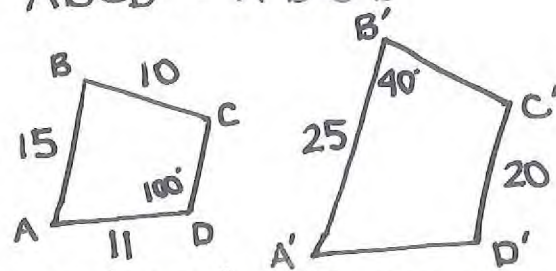
⑤  $ABCD \cong A'B'C'D'$



Find each side length or angle measure.

- $BC = \underline{\hspace{2cm}}$
- $A'D' = \underline{\hspace{2cm}}$
- $m\angle A' = \underline{\hspace{2cm}}$
- $CD = \underline{\hspace{2cm}}$
- $m\angle B = \underline{\hspace{2cm}}$

⑥  $ABCD \sim A'B'C'D'$

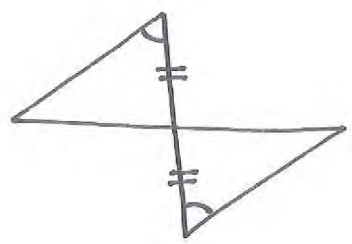


Find each side length or angle measure.

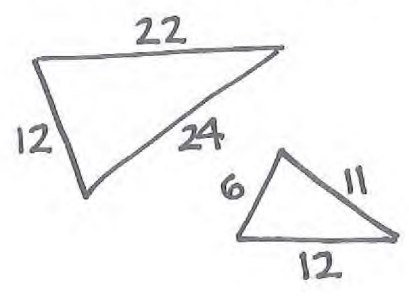
- $B'C' = \underline{\hspace{2cm}}$
- $m\angle D' = \underline{\hspace{2cm}}$
- $CD = \underline{\hspace{2cm}}$
- $m\angle B = \underline{\hspace{2cm}}$
- $A'D' = \underline{\hspace{2cm}}$

state if the triangles are congruent, similar, or neither. Explain... using the Triangle Congruence or Triangle Similarity Theorems. (show your work!)

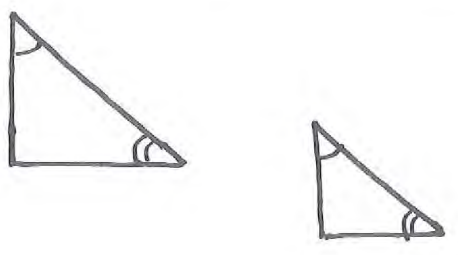
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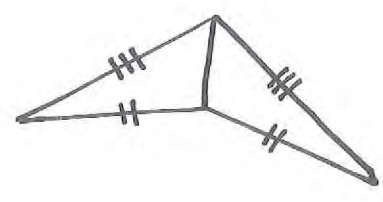
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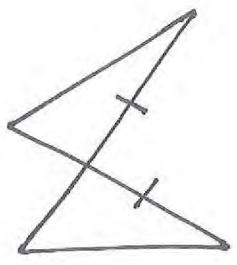
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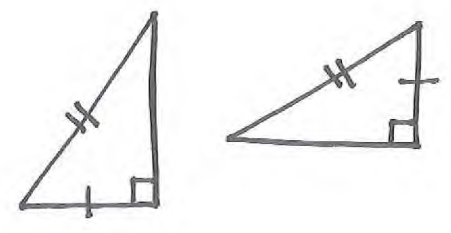
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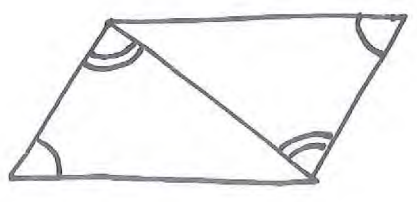
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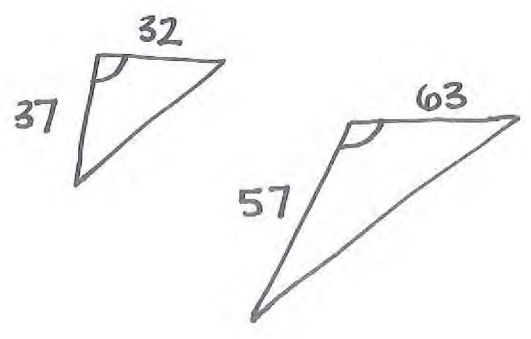
12



13



14



# Congruence vs Similarity Practice

Key

#35

State if the polygons are congruent, similar, or neither. If they are similar, state the scale factor.

①

$\frac{20}{24} = .\overline{83}$   
 $\frac{40}{48} = .\overline{83}$   
similar, SF =  $.\overline{83}$  or  $\frac{5}{6}$

②

congruent

③

$\frac{7}{28} = .25$   
 $\frac{4}{12} = .\overline{3}$   
 $\frac{5}{15} = .\overline{3}$   
neither

④

$\frac{23}{10} = \frac{24}{8.5} = \frac{40}{16} = 2.3$   
neither

⑤  $ABCD \cong A'B'C'D'$

Find each side length or angle measure.

- $BC = \underline{10}$
- $A'D' = \underline{20}$
- $m\angle A' = \underline{20^\circ}$
- $CD = \underline{14}$
- $m\angle B = \underline{98^\circ}$

⑥  $ABCD \sim A'B'C'D'$

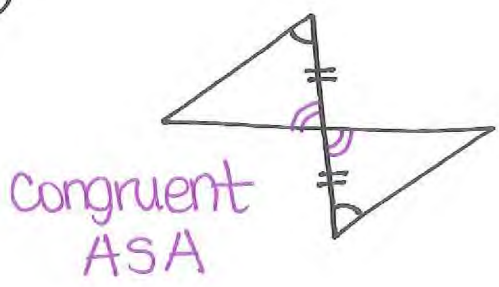
SF =  $\frac{25}{15} = \frac{5}{3}$

Find each side length or angle measure.

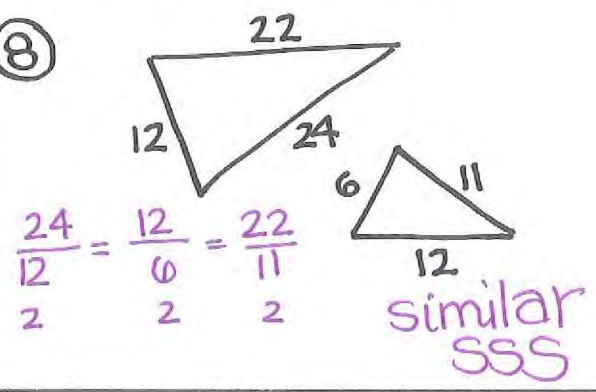
- $B'C' = \underline{16.\overline{6}}$  or  $\frac{50}{3}$
- $m\angle D' = \underline{100^\circ}$
- $CD = \underline{12}$
- $m\angle B = \underline{40^\circ}$
- $A'D' = \underline{18.\overline{3}}$  or  $\frac{55}{3}$

state if the triangles are congruent, similar, or neither. Explain... using the Triangle Congruence or Triangle Similarity Theorems. (show your work!)

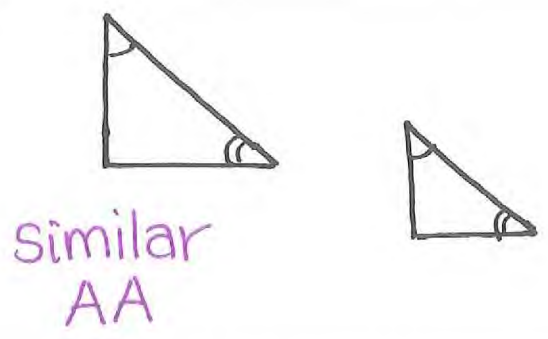
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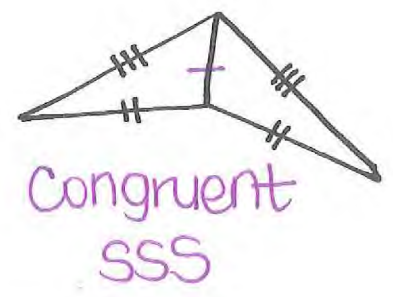
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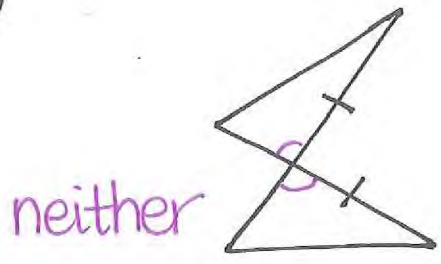
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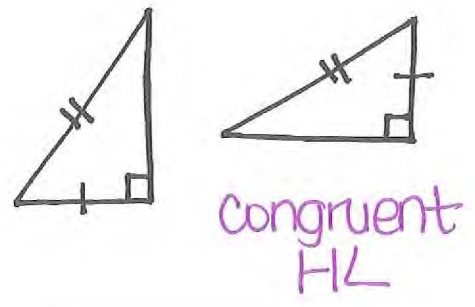
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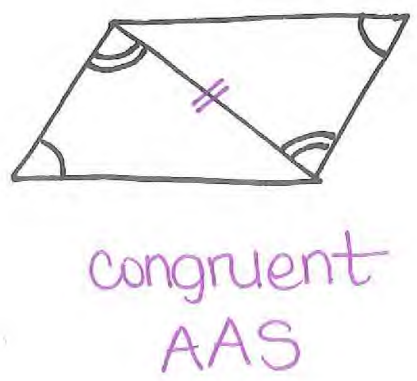
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