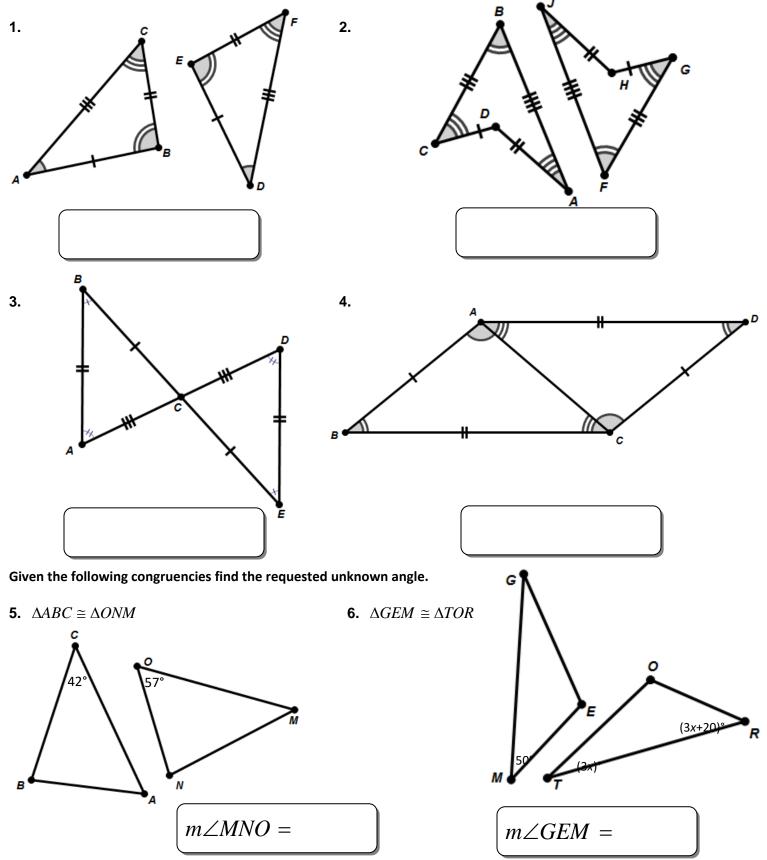


Sec 2.5 Geometry – Congruence Name:

Any two congruent figures can be mapped onto one another using a series of rigid or isometric transformation (reflections, rotations, and translations). – See GSP Lab (Transformations) –

Each of the following pairs of figures shown below are congruent. Write a congruence statement for each and tell whether or not a reflection would be needed to map the pre-image onto the image.

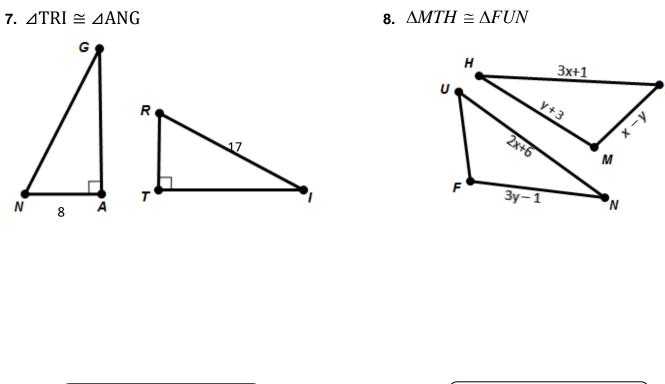


M. Winking

Unit 2-5

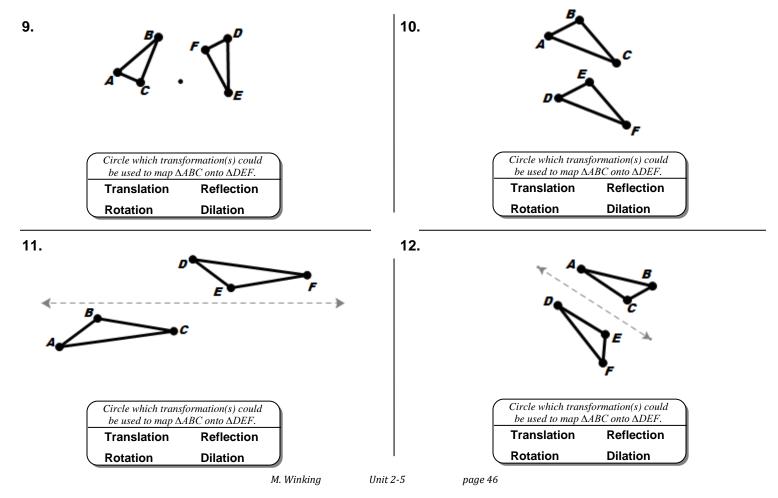
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Given the following congruencies find the requested unknown side.



$$GN =$$
  $UF =$ 

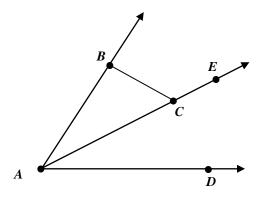
The following pairs of triangles are congruent. Provide a suggested transformation or series of transformations that can map one triangle onto the other congruent triangle. (In each diagram  $\Delta ABC \cong \Delta DEF$ )



9. Find  $m \measuredangle BCE$ 

## Given:

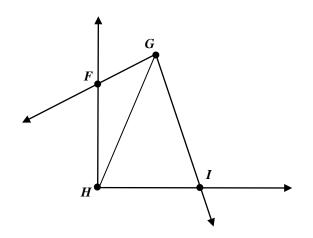
- $\overrightarrow{AC}$  bisects  $\measuredangle DAB$
- $m \not \Delta DAB = 50^{\circ}$
- $\angle ABC$  is a right angle



## 10. Find $m \measuredangle GFH$

## Given:

- $\overline{GH}$  bisects  $\measuredangle FGI$
- $m \not\equiv FGI = 60^{\circ}$
- $m \not = GIH = 75^{\circ}$
- $\measuredangle FHI$  is a right angle





 $m \measuredangle GFH =$