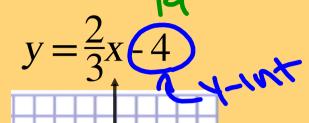
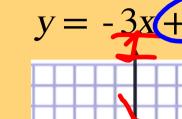
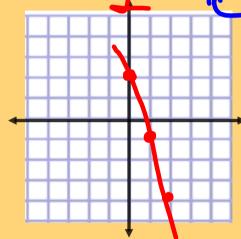
10/31/ - Warm Up Problem

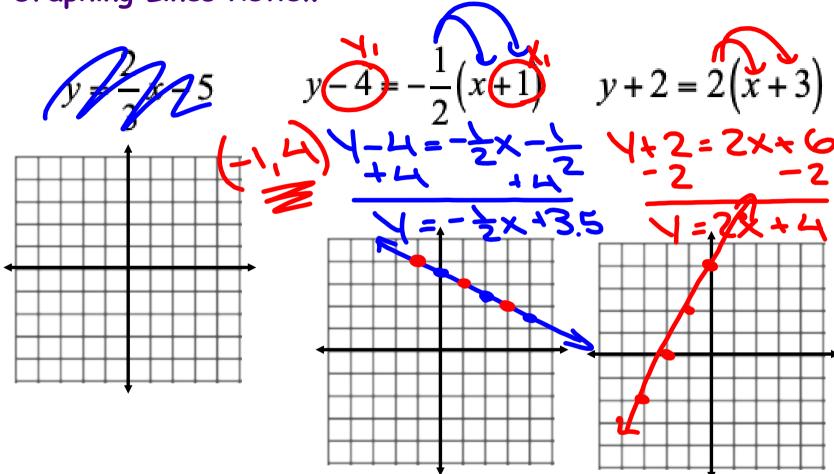


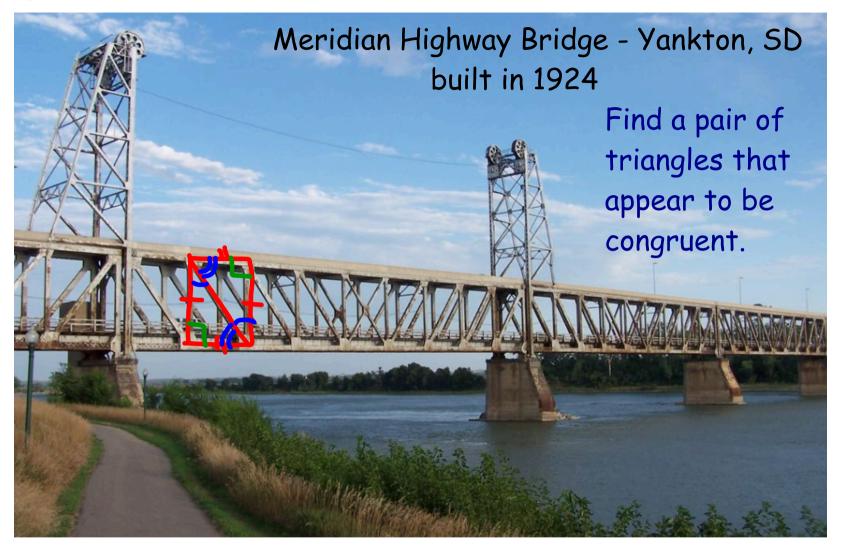






Graphing Lines Review





Section 4.1 - Congruent Figures Goals

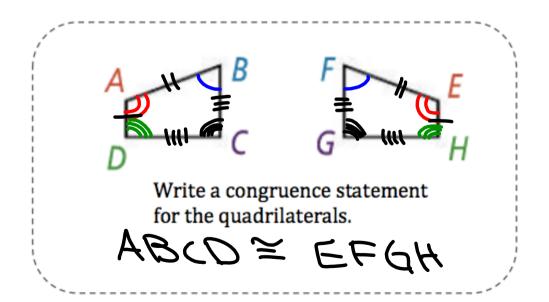
- identify congruent figures and write congruence statements
- name corresponding parts of congruent figures

Congruent Polygons: same shape and same size

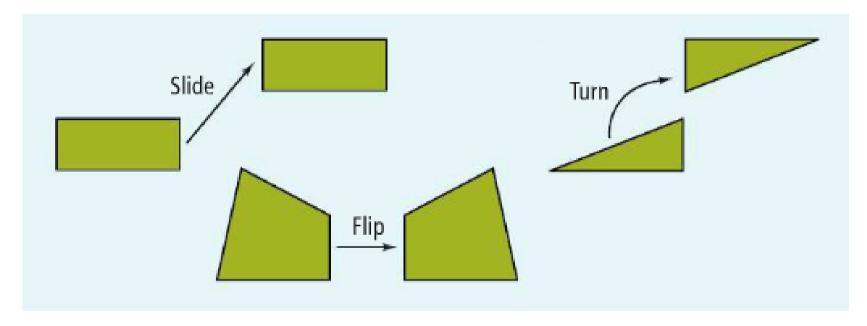
- Have corresponding <u>angles</u> that are congruent
- Have corresponding <u>sides</u> that are congruent

Congruence Statement:

- a statement saying that two figures are congruent
- corresponding angles must be lined up



When two figures are congruent, you can flip, turn, or slide one so that it fits exactly on the other.



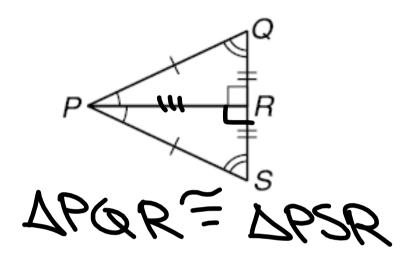
$\triangle ABC \cong \triangle EFG$ List the congruent corresponding parts.

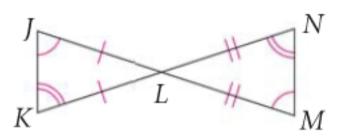
Congruent Angles

Congruent Sides

Finding Congruent Triangles

Which pair of triangles are definitely congruent?





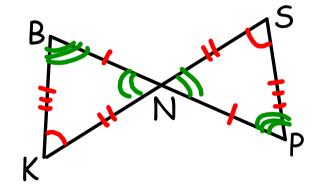
Not Possible

A helpful theorem...

Third Angle Theorem

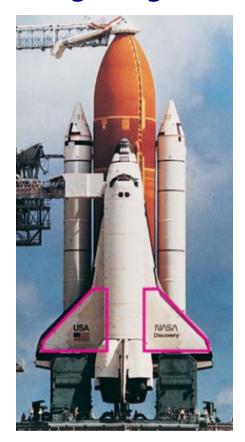
If two angles of one triangle are congruent to two angles of another triangle, then the third angles are **Congruent**



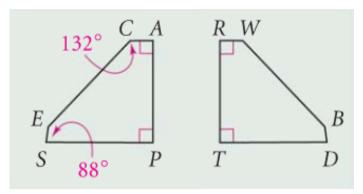


Are these triangles congruent? Justify your answer.

Using Congruent Parts



The wings of space shuttles and other aircraft must be congruent polygons.



$$m\angle W = 132^{\circ}$$
 $m\angle D = 55^{\circ}$

No Assignment