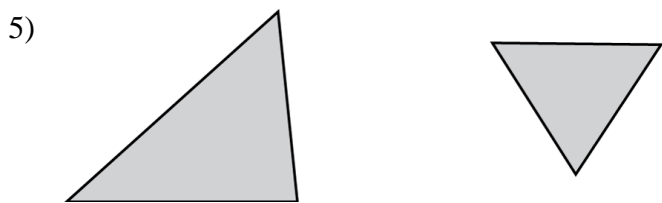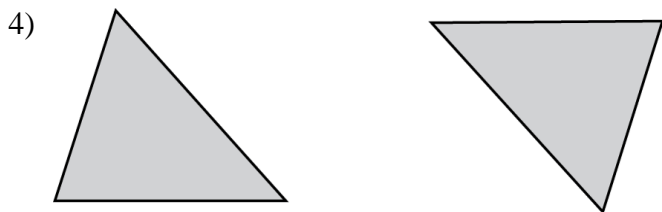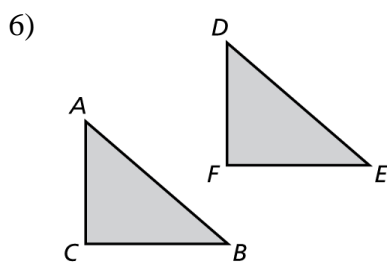Name_____ Date_____

2.1 – Congruent Figures

1) Two figures are congruent when they have the _____ _____ and the

_____ _____.

2) In two shapes, another name for **matching sides** is _____ _____.

3) In two shapes, another name for **matching angles** is _____ _____.
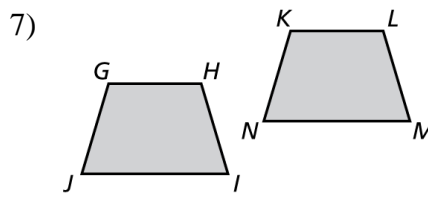
Tell whether the triangles are *congruent* or *not congruent*.

4)

5)

The figures are congruent. Name the corresponding angles and the corresponding sides.
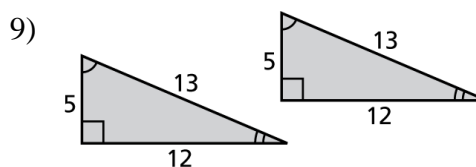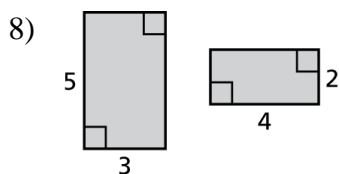
6)

∠___ ≅ ∠___   _____ ≅ _____

∠___ ≅ ∠___   _____ ≅ _____

∠___ ≅ ∠___   _____ ≅ _____

7)

∠___ ≅ ∠___   _____ ≅ _____

∠___ ≅ ∠___   _____ ≅ _____

∠___ ≅ ∠___   _____ ≅ _____

∠___ ≅ ∠___   _____ ≅ _____

Tell whether the two figures are congruent. Explain your reasoning.

8)

9)

Describe and correct the error in telling whether the two figures are congruent.

10)
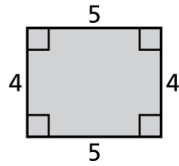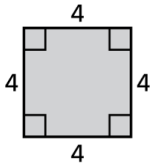
| | Both figures have four sides and corresponding angle measures are equal. So, they are congruent. |

11) The pentagons are congruent. Determine whether the statement is *true* or *false*. Explain your reasoning.

a) $\angle B$ is congruent to $\angle C$.

b) Side MN is congruent to side AE.

c) $\angle B$ corresponds to $\angle O$.

d) Side BC is congruent to side PO.

e) The sum of the angle measures of *LMNOP* is 540°.

f) The measure of $\angle B$ is 120°.