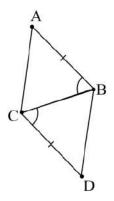
# 1-3 More Triangle Congruency

# Date:

## Some Examples...

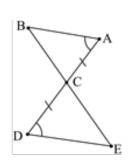
Ex 1. Given the diagram below are ΔABC and ΔDCB congruent?



State the information that can be derived from the diagram.

State if they are congruent and the postulate that supports it.

Ex 2. Given the diagram below are  $\triangle ABC$  and  $\triangle DCE$  congruent?



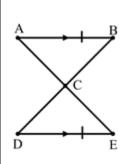
State the information that can be derived from the diagram.

State if they are congruent and the postulate that supports it.

Reminder: Alternate interior angles are congruent.

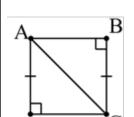
### **DIY Section:**

1) Given the diagram below are ΔABC and ΔEDC congruent?



State the information that can be derived from the diagram.

State if they are congruent and the postulate that supports it.



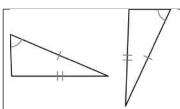
2) Given the diagram below are  $\Delta ABC$  and  $\Delta ADC$  congruent?

State the information that can be derived from the diagram.

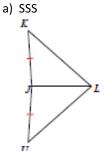
State if they are congruent and the postulate that supports it.

3) Are the triangles congruent? Explain.

4) State what additional informaton is required in order to

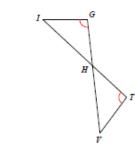


5a) What is the value of x? b) What postulate is used to prove your answer?

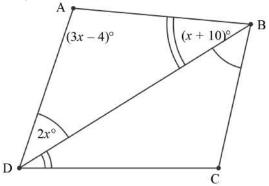


b) ASA

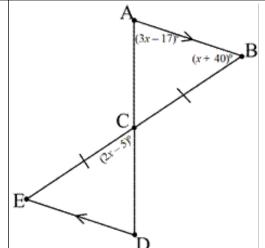
know that the triangles are congruent for the reason given.



- 104° x° 104°
- **6 a)** What postulate proves the two triangles are congruent?



b) Find the measure of  $\angle C$ .



- 7a) Which
  TWO triangle
  congruency
  postulates
  could be used
  to prove the
  two triangles
  are congruent?
- b) Find the measure of  $\angle E$

## Algebra Practice

8) Solve the equation for the volume of a cone for the radius and list the properties used.

$$V = \frac{1}{3}\pi r^2 h$$

9) Solve for r and list the properties used.

$$4(-1+3r)+8(8r+1)=-72$$

10) Solve for k and list the properties used.

$$-3k - 2k = -3(k+2) + 2(k+3)$$

11) Solve the kinetic energy equation for velocity and list the properties used.

$$K = \frac{1}{2}mv^2$$

12) Solve for n and list the properties used.	13) Solve the potential energy equation for gravity and list
2(1-2n)+3=-3(n-1)	the properties used.
	P = mgh