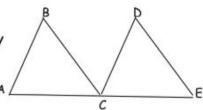
Assume that  $\overline{AB}\cong \overline{CD}$  and  $\overline{BC}\cong \overline{DE}$ . What additional Information would you need to prove that  $\Delta ABC\cong \Delta CDE$  by SSS?



Assume that  $\overline{AB}\cong \overline{CD}$  and  $\overline{BC}\cong \overline{DE}$ . What additional Information would you need to prove that  $\triangle ABC\cong\triangle CDE$  by SAS?

$$\triangle CDE \cong \triangle FGH$$
, m<6 = (x + 17)°, m

$$\Delta RST \cong \Delta XYZ$$
, m(11x - 1)^{\circ}, m(9x + 5)^{\circ}, and RT =  $7x + 5$ . Find XZ.

 $\Delta JKL \cong \Delta MNO$ , m<K =  $(3x + 7)^{\circ}$ , m<N =  $(2x + 24)^{\circ}$ , m<L =  $(5x - 42)^{\circ}$ , and m<O =  $(4x - 25)^{\circ}$ . Find the measure of <M.

Find the measure of each angle in  $\triangle ABC$  if:

$$\angle A = (x)^{\circ}$$
  
 $\angle B = (1.5x+15)^{\circ}$   
 $\angle C = (3.5x-15)^{\circ}$ 

State the postulate or theorem you would use to prove each pair of triangles congruent. If the triangles cannot be proved congruent, write *not possible*.

