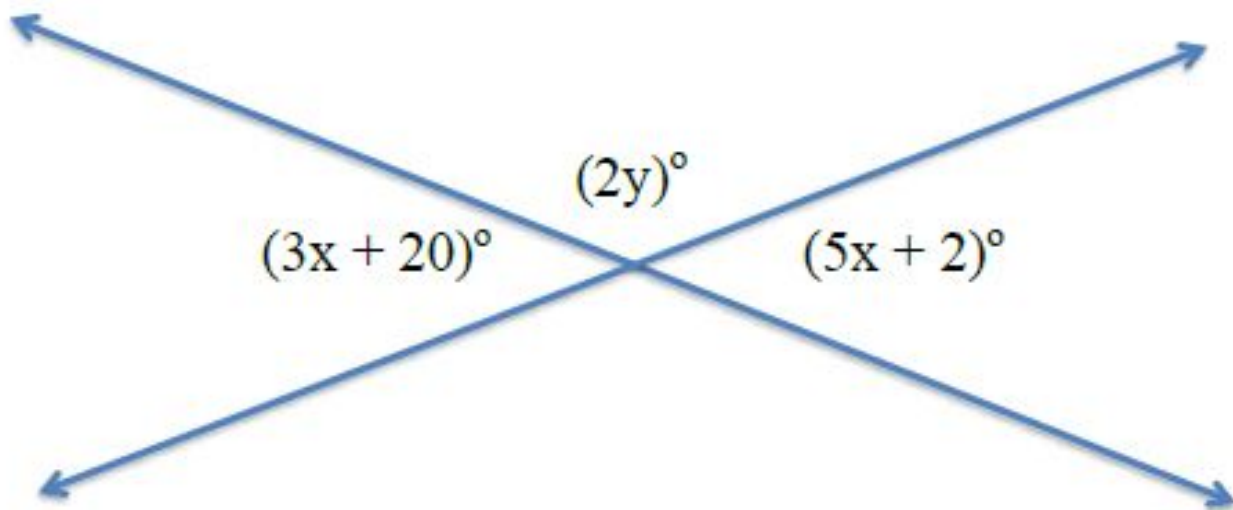


Solve for x and y

x =

y =

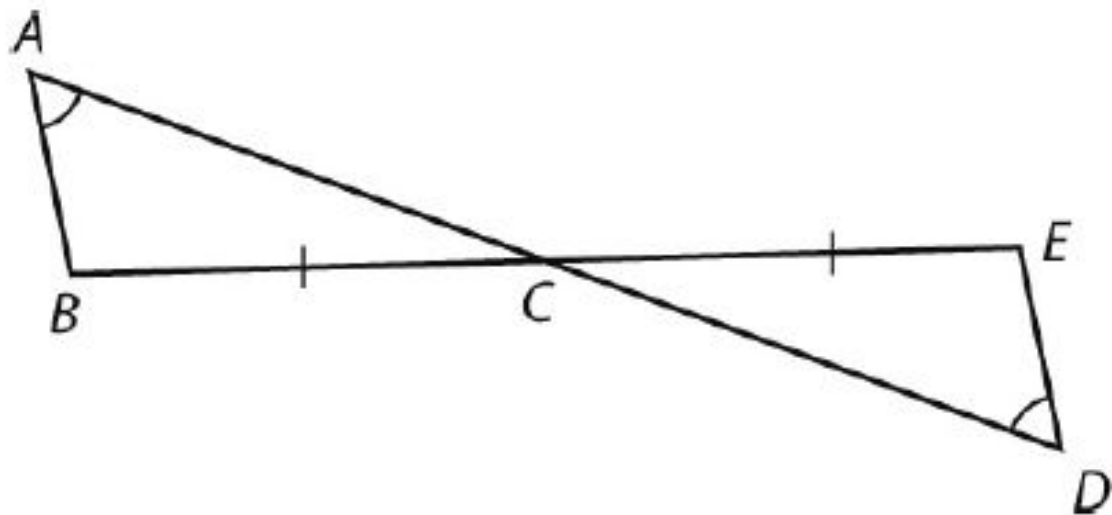


a) Find the equation of the line parallel to $y = \frac{1}{2}x + 4$ that passes through $(10, 1)$

b) Find the equation of the line perpendicular to $y = \frac{1}{4}x + 3$ that passes through $(-1, 6)$

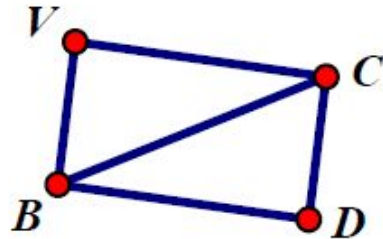
c) Find the slope of the line $3x - 7y = 9$

Are $\triangle ABC$ and $\triangle DEC$ congruent?
If yes, state the theorem.

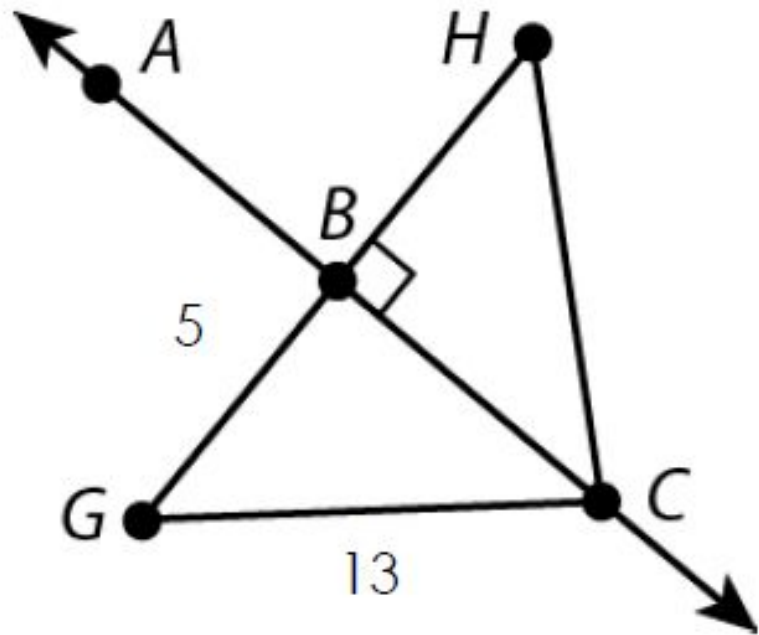


GIVEN: $\overline{VC} \parallel \overline{DB}$, $\overline{VC} \cong \overline{DB}$

PROVE: $\triangle VBC \cong \triangle DCB$



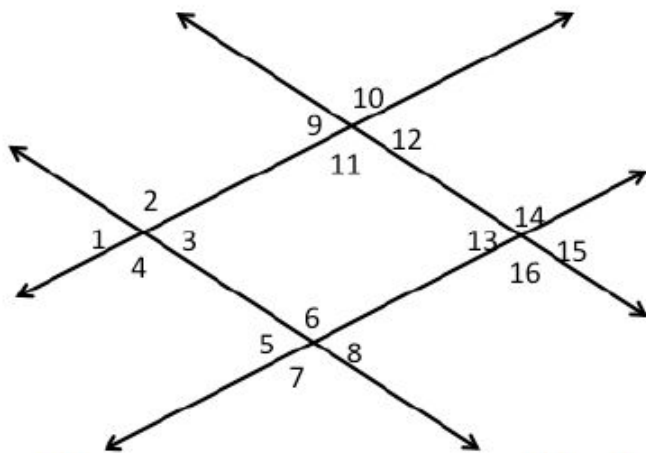
STATEMENT	REASON



$$GH = \underline{\hspace{2cm}}$$

$$CH = \underline{\hspace{2cm}}$$

$$BC = \underline{\hspace{2cm}}$$



Lines are parallel

a) Name all the angles congruent to $\angle 6$

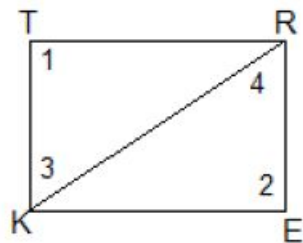
b) If $m\angle 8 = 102^\circ$, find $m\angle 16$

Give the vocab word that matches each definition:

1. Two angles whose sum is 180° :
2. Two angles whose sum is 90° :
3. Two figures are if they are the same size and shape.
4. An is a ray, segment or line that divides an angle into two congruent angles.
5. The point that divides a segment into two congruent segments:
6. Lines that form right angles are called:
7. Lines that never intersect are called:
8. A point, segment, line, or ray that divides a segment into two congruent segments is called a .

Given: $\angle 1 \cong \angle 2, \angle 3 \cong \angle 4$

Prove: $\overline{TR} \cong \overline{EK}$



STATEMENT	REASON

If $\triangle ABR \cong \triangle LGW$, complete the following congruence statements:

a) $\overline{AR} \cong$

b) $\overline{GW} \cong$

c) $\angle B \cong$

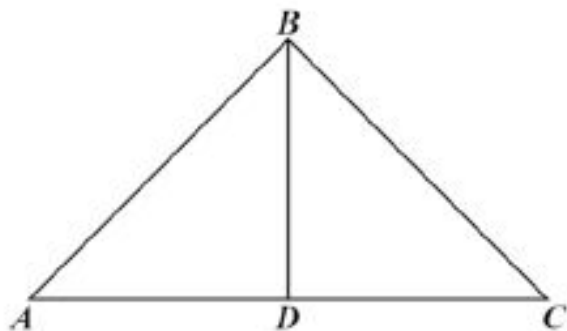
d) $\angle L \cong$

a) Find the equation of the line parallel to $y = -3x + 2$ that passes through $(4, 1)$

b) Find the equation of the line perpendicular to $y = -2x + 5$ that passes through $(6, -7)$

c) Find the slope of the line $4x + 5y = 6$

$\overline{BD} \perp \overline{AC}$, D is midpoint of \overline{AC}



$\triangle ABD \cong \triangle$

by

Given: $5x - 12 = x + 4$

Prove: $x = 4$

STATEMENT	REASON