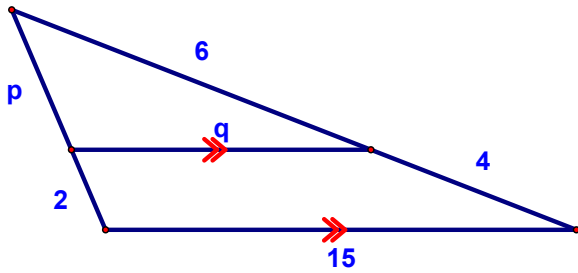


3.

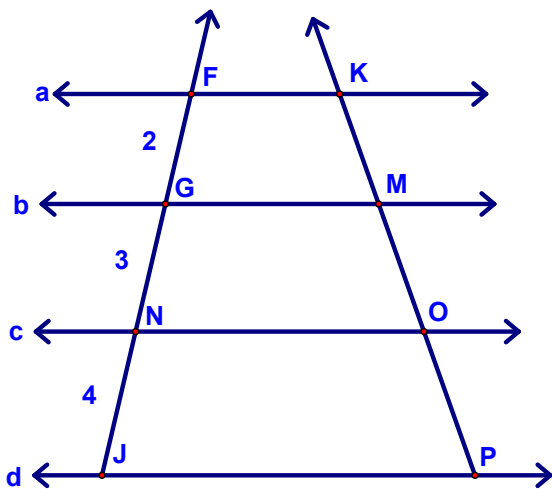
Solve for p and q in the figure shown.



4.

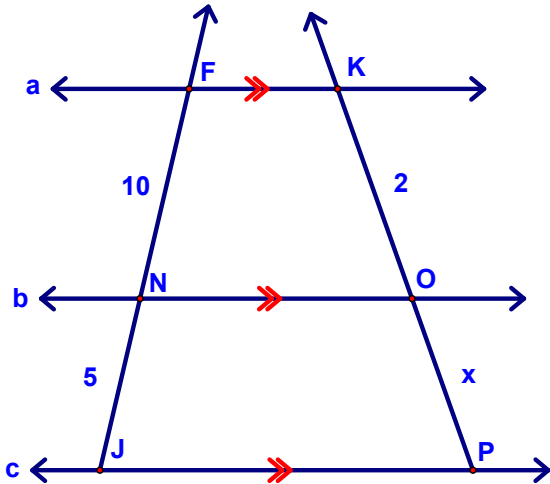
Given: $a \parallel b \parallel c \parallel d$
 $KP = 15$

Find: KM , MO , and OP



5.

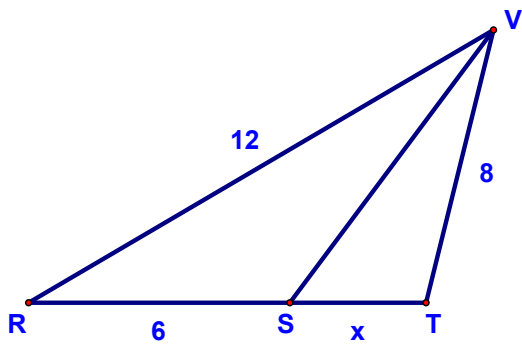
Solve for x in the diagram shown.



6.

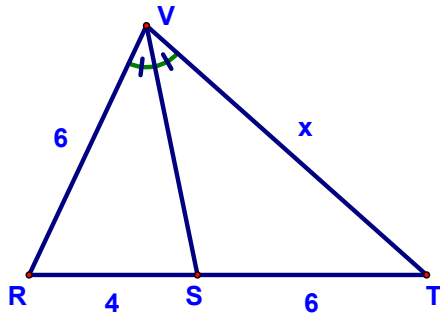
Given: $\angle RVS \cong \angle SVT$

Find: ST



7.

Given the diagram, solve for x .



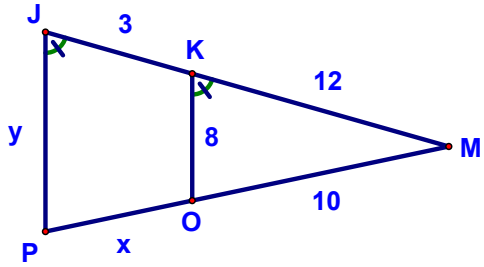
8.

A 60 m tower casts a 50-m shadow, while one-half block away a telephone pole casts a 20-m shadow. How tall is the telephone pole?

9.

$\angle J \cong \angle MKO$

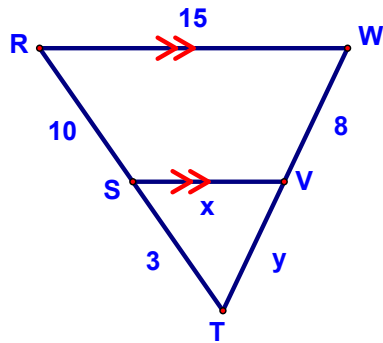
Find PO & JP



10.

$\overrightarrow{SV} \parallel \overrightarrow{RW}$

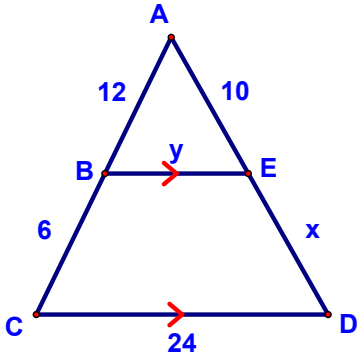
Find SV & VT



11.

$$\overrightarrow{BE} \parallel \overrightarrow{CD}$$

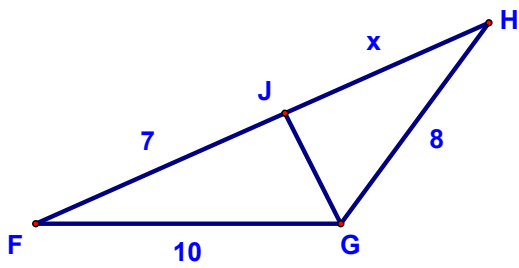
Find perimeter of BEDC



12.

Given: \overline{GJ} bisects $\angle FGH$

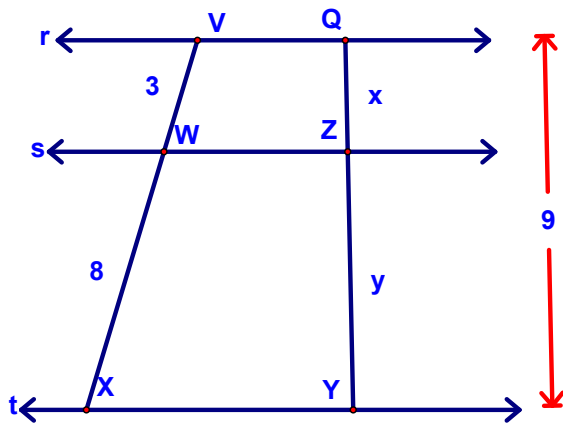
Find: JH



13.

Given: $r \parallel s \parallel t$

Find: QZ and ZY



19a.

One side of a triangle is 4 cm longer than another side. The ray bisecting the \angle formed by these sides divides the opposite side into 5-cm and 3-cm segments. Find the perimeter of the triangle.

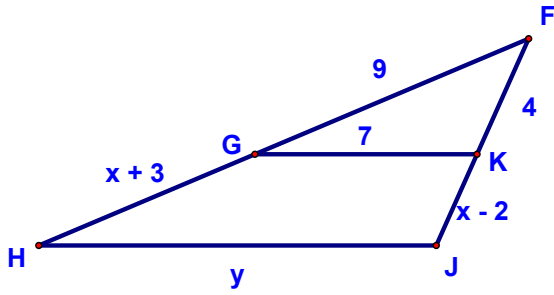
19b.

If the first side of the triangle in part a were x cm longer than the second side and the other information was unchanged, find the triangle's perimeter in terms of x .

20.

Given: $\overleftrightarrow{GK} \parallel \overleftrightarrow{HJ}$

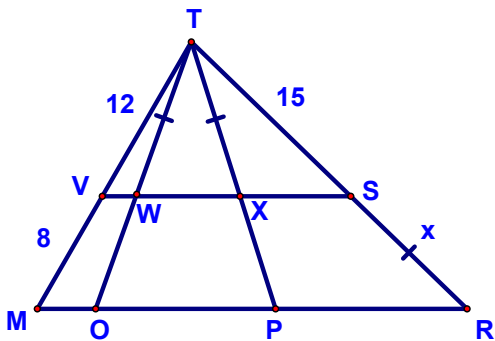
Find: The perimeter of $\triangle HJF$



22.

Given: $\overleftrightarrow{VS} \parallel \overleftrightarrow{MR}$
 $SR = TW = TX$

Find: XP



27.

If two flagpoles are 10m and 70m tall and are 100m apart, find the height of the point where a line from the top of the first to the bottom of the second intersects a line from the bottom of the first to the top of the second.