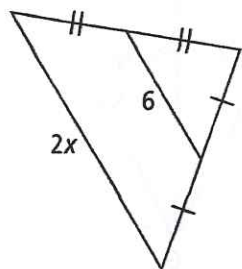


HW-22 (Review on 5.1, 5.2, 5.3)

Algebra Find the value of x .

①

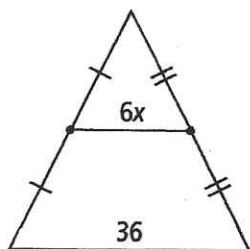


To start, identify the midsegment. Then write an equation to show that its length is half the length of its parallel segment.

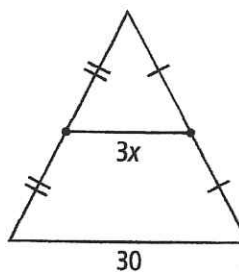
The segment with length is the midsegment.

$$\square = \frac{1}{2} \cdot \square$$

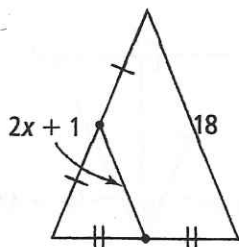
②



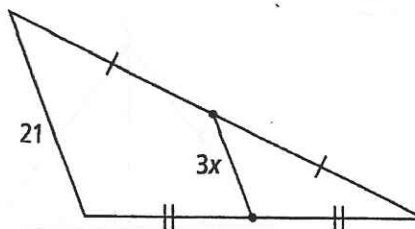
④



③



⑤



X is the midpoint of \overline{MN} . Y is the midpoint of \overline{ON} .

⑥

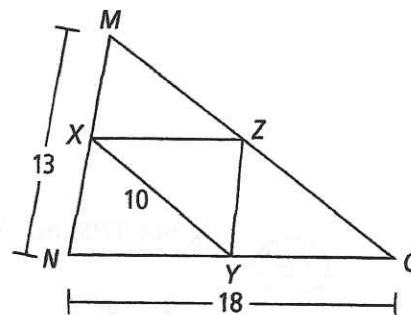
Find XZ .

⑦

If $XY = 10$, find MO .

⑧

If $m\angle M$ is 64, find $m\angle XYZ$.



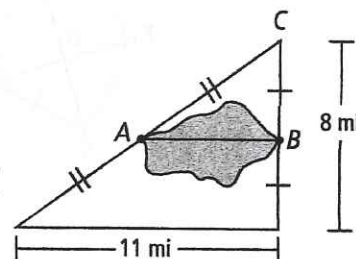
Use the diagram at the right for Exercises 26 and 27.

⑨

What is the distance across the lake?

⑩

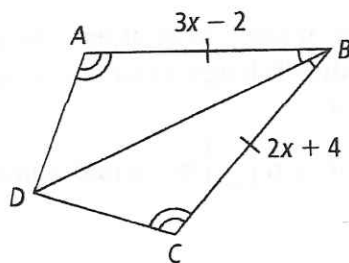
Is it a shorter distance from A to B or from B to C ? Explain.



Algebra Find the indicated values of the variables and measures.

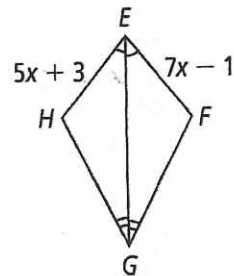
(11)

x, BA, BC



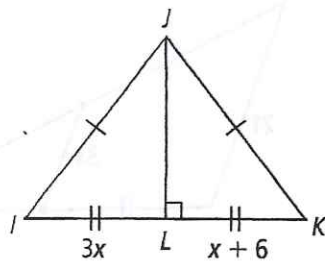
(12)

x, EH, EF



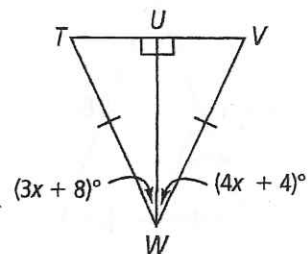
(13)

x, IK



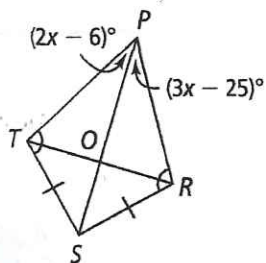
(14)

$x, m\angle UWV, m\angle UWT$



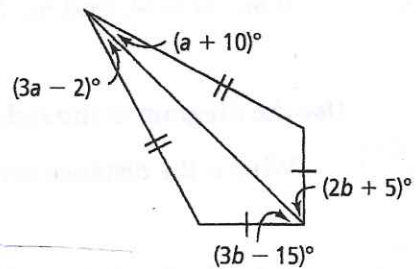
(15)

$x, m\angle TPS, m\angle RPS$

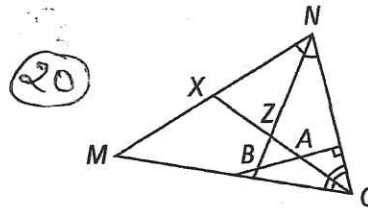
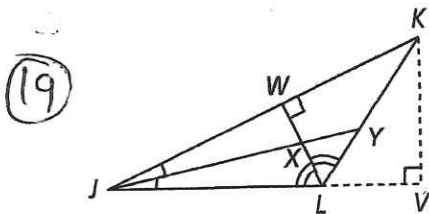
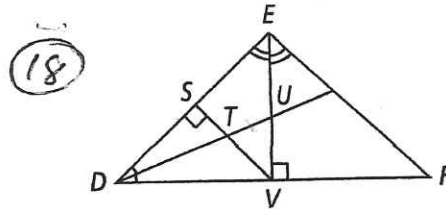
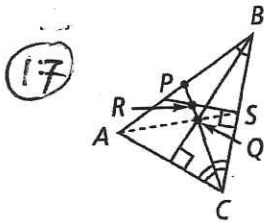


(16)

a, b



Name the point of concurrency of the angle bisectors.



Find the value of x .

- (22) To start, identify the relationship between the line segments that are labeled.
Because the segments meet at the point where the ? meet, the segments are ? .

Then write an equation to find x :

$$\boxed{} = \boxed{} + \boxed{}$$

