



Vertically Opposite Angles

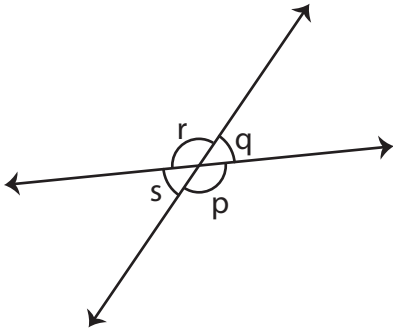
Name _____

Score _____

PA:23

Find the unknown angle.

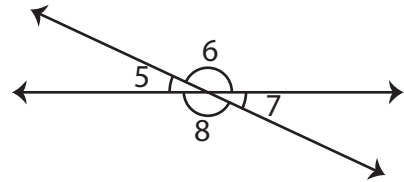
1)



$m\angle s = 50^\circ$; $m\angle p =$

$m\angle q =$; $m\angle r =$

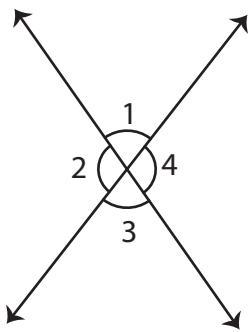
2)



$m\angle 7 = 25^\circ$; $m\angle 6 =$

$m\angle 8 =$; $m\angle 5 =$

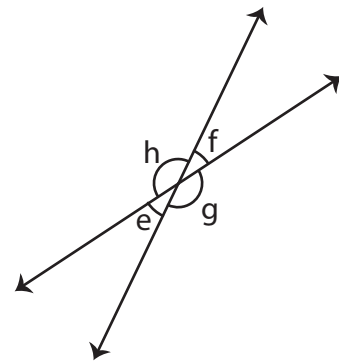
3)



$m\angle 4 = 107^\circ$; $m\angle 2 =$

$m\angle 3 =$; $m\angle 1 =$

4)

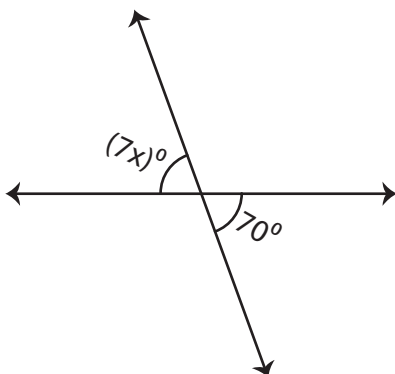


$m\angle g = 149^\circ$; $m\angle f =$

$m\angle e =$; $m\angle h =$

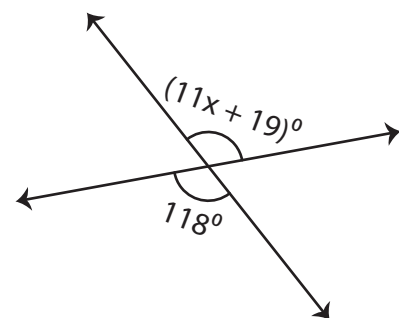
Find the value of x.

1)



$x =$

2)



$x =$



Vertically Opposite Angles

Name _____

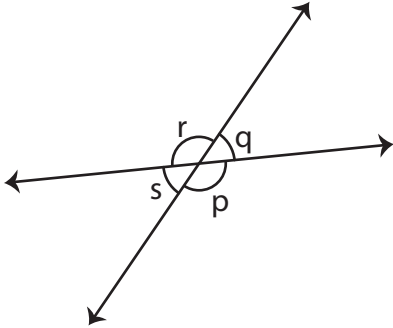
Score _____

Answer key

PA:23

Find the unknown angle.

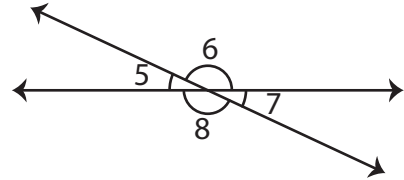
1)



$$m\angle s = 50^\circ ; m\angle p = 130^\circ$$

$$m\angle q = 50^\circ ; m\angle r = 130^\circ$$

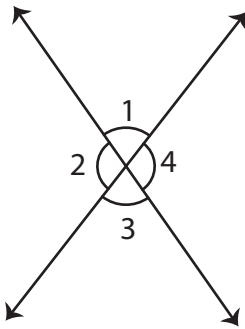
2)



$$m\angle 7 = 25^\circ ; m\angle 6 = 155^\circ$$

$$m\angle 8 = 155^\circ ; m\angle 5 = 25^\circ$$

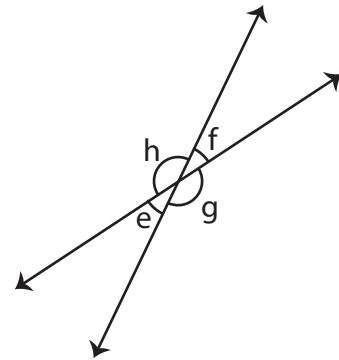
3)



$$m\angle 4 = 107^\circ ; m\angle 2 = 107^\circ$$

$$m\angle 3 = 73^\circ ; m\angle 1 = 73^\circ$$

4)

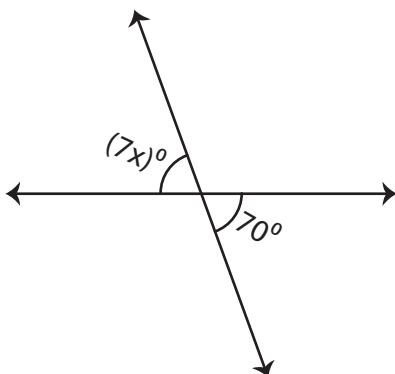


$$m\angle g = 149^\circ ; m\angle f = 31^\circ$$

$$m\angle e = 31^\circ ; m\angle h = 149^\circ$$

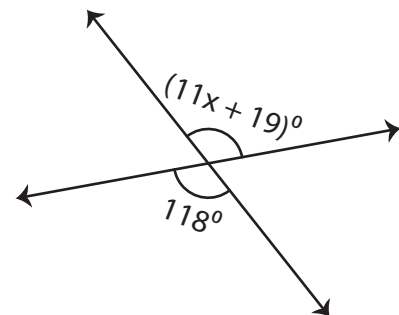
Find the value of x.

1)



$$x = 10$$

2)



$$x = 9$$