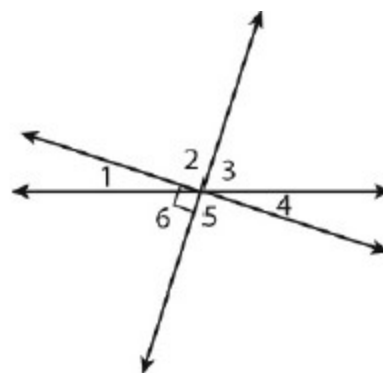


Module 4 Review

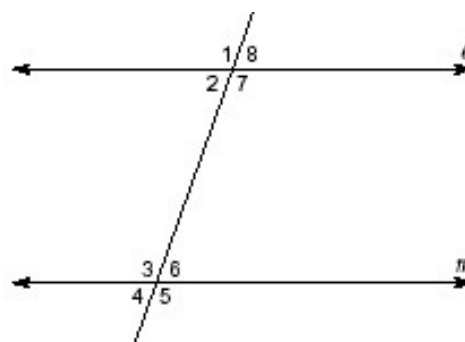
In the diagram, $m\angle 6 = 72^\circ$.

- 1) Find $m\angle 1$.
- 2) Find $m\angle 2$.
- 3) Find $m\angle 3$.
- 4) Find $m\angle 4$.
- 5) Find $m\angle 5$.
- 6) Describe the relationship between $\angle 1$ and $\angle 4$.
- 7) Describe the relationship between $\angle 1$ and $\angle 6$.



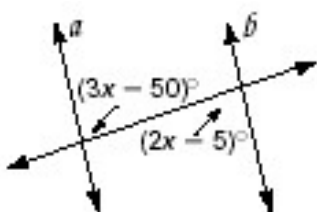
For Problems 8-12, assume $\ell \parallel m$. State the name of the special relationship, and then find the missing angle.

- 8) If $m\angle 7 = 100^\circ$, find $m\angle 3$.
- 9) If $m\angle 7 = 95^\circ$, find $m\angle 6$.
- 10) If $m\angle 1 = 120^\circ$, find $m\angle 5$.
- 11) If $m\angle 4 = 20^\circ$, find $m\angle 2$.
- 12) If $m\angle 5 = 140^\circ$, find $m\angle 5$.

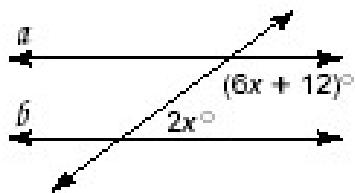


For Problems 13-14, assume $a \parallel b$. State the name of the special relationship, and then find x .

13)



14)

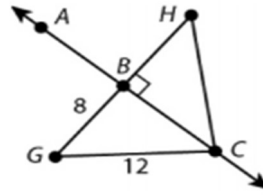


For Problems 15-17, use the diagram below in which \overleftrightarrow{AC} is a perpendicular bisector of \overline{GH} . Find the unknown value.

15) $GH =$

16) $CH =$

17) $BC =$



18) Find the slope of the line passing through the points $(-2,5)$ and $(3,7)$.

19) Write the equation (in any form) for the line in problem 18.

20) Write the equation (in any form) of the line PARALLEL to the line $y = \frac{4}{7}x - 6$ that passes through the point $(-1,3)$.

21) Write the equation (in any form) of the line PERPENDICULAR to the line $y = -\frac{3}{5}x + 7$ that passes through the point $(4, -3)$.