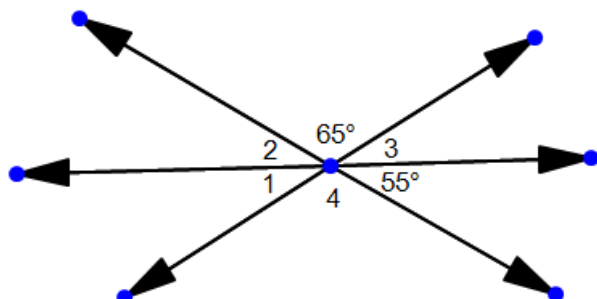


Name: \_\_\_\_\_

## Vertical Angles

Find the measure of each numbered angle.



- 1)  $m\angle 4$                       2)  $m\angle 2$
- 3)  $m\angle 1$                       4)  $m\angle 3$

Use the figure at the right for Exercises 5-8.

- 5) Given:  $m\angle PQT = 2x - 20$ ,  
 $m\angle SQR = x + 10$   
 Find:  $m\angle TQR$

- 6) Given:  $m\angle PQT = 3y - 20$ ,  
 $m\angle SQR = y + 20$   
 Find:  $m\angle SQR$

- 7) Given:  $m\angle SQR = 5x - 10$ ,  
 $m\angle TQP = x + 30$   
 Find:  $m\angle PQS$

- 8) Given:  $m\angle PQT = 8y + 8$ ,  
 $m\angle RQS = 10y - 12$   
 Find:  $m\angle PQS$

