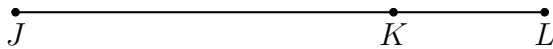


Name:

### 4.3 Homework: Angle review

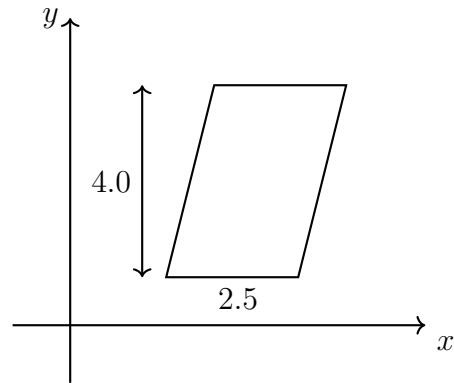
1. Given  $\overline{JKL}$ ,  $JK = 5.4$ , and  $KL = 1.1$ . Find  $JL$ .

Show your work by marking the diagram and writing an equation.

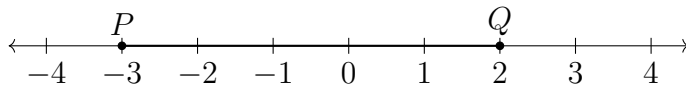


2. A parallelogram is shown on the  $x$ - $y$  plane having a base  $b = 2.5$  and height  $h = 4.0$ .

Find its area, showing the calculation.



3. Subtract to find the length between  $P(-3)$  and  $Q(2)$ . Take the absolute value if necessary since lengths are positive numbers.

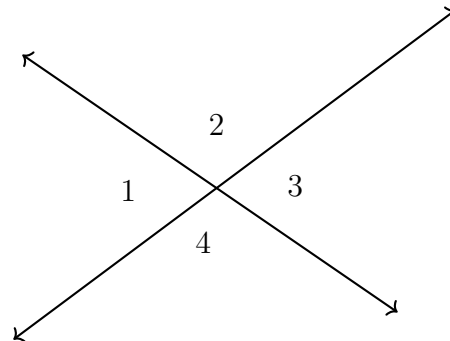


4. As shown below, two lines intersect making four angles:  $\angle 1$ ,  $\angle 2$ ,  $\angle 3$ , and  $\angle 4$ .

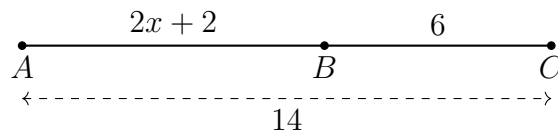
Given  $m\angle 2 = 105^\circ$ .

(a) Find  $m\angle 3$

(b) Find  $m\angle 4$

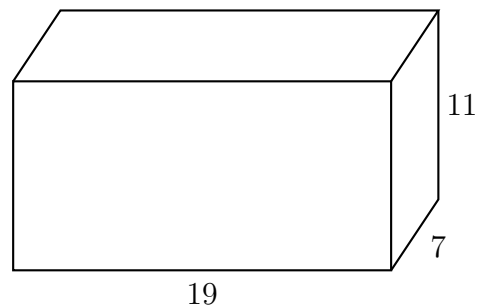


5. Given  $\overline{ABC}$ ,  $AB = 2x + 2$ ,  $BC = 6$ ,  $AC = 14$ . Find  $x$ .



6. Find the volume of a rectangular prism (box). Its length is  $l = 19$  inches, its height  $h = 11$  inches, and depth is  $w = 7$  inches. Start with the equation

$$V = l \times w \times h$$



7. Apply the Angle Addition postulate. Write an equation to support your work.

Given  $m\angle CBD = 28^\circ$ ,  $m\angle ABC = 90^\circ$ .

Find  $m\angle ABD$ .

