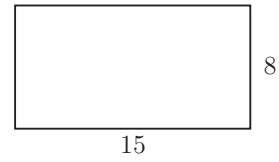
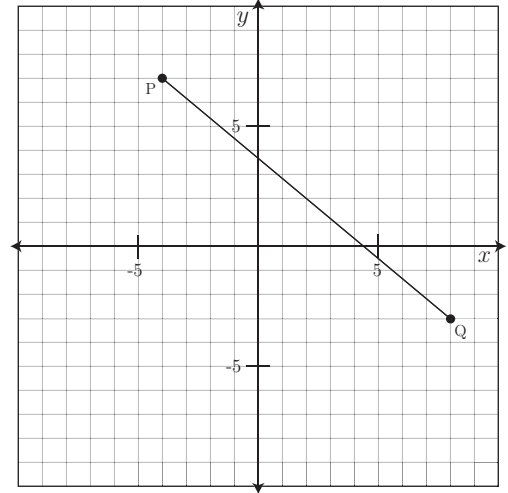


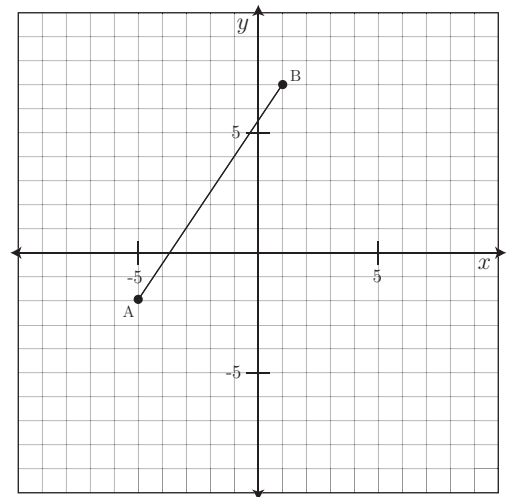
1. How long is the diagonal of the rectangle below?



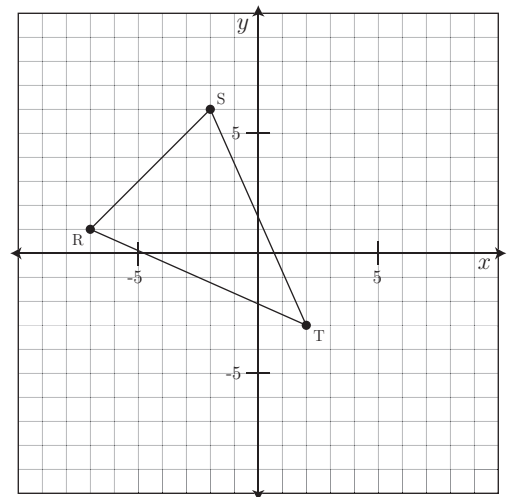
2. Find the length of the line segment \overline{PQ} graphed below.



3. Find the length of the line segment \overline{AB} graphed below.

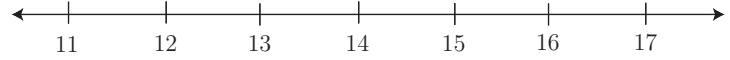


4. Is $\triangle RST$ an isosceles triangle? Explain.



5. Find the length of the line segment between the points $(-3, 7)$ and $(5, 19)$.

6. (a) Find the average of 11 and 17 and mark the result as M on the numberline to the right.



(b) How is M related to the other two points?

7. Return to problems 2 and 3 and locate the midpoint of the line segments shown in each case.

8. The point labeled (a, b) is symmetric with the point $(-3, 6)$ (shown). Find the values of the coordinates a and b .

$a =$ _____

$b =$ _____

