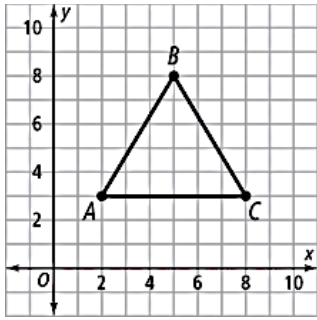
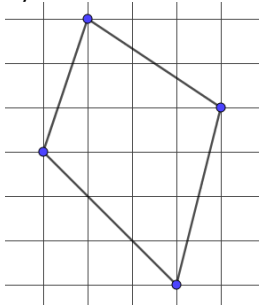


1) Use a mathematical proof to determine if the figure shown is an equilateral triangle.



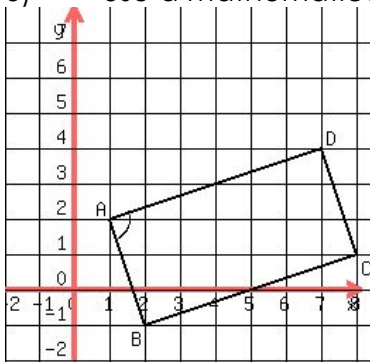
2) Using complete sentences, explain why the figure in #1 is or is not an equilateral triangle.

3) Use a mathematical proof to determine if the figure shown is a rhombus.



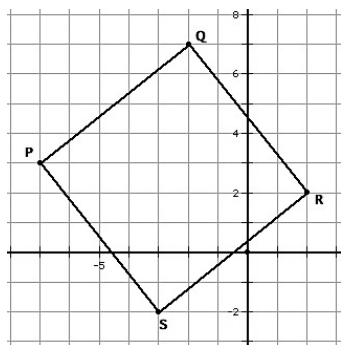
4) Using complete sentences, explain why the figure in #3 is or is not a rhombus.

5) Use a mathematical proof to determine if the figure shown is a rectangle.



6) Using complete sentences, explain why the figure in #5 is or is not a rectangle.

7) Use a mathematical proof to determine if the figure shown is a rhombus.



8) Using complete sentences, explain why the figure in #7 is or is not a rhombus.

**Write the equation of  $g(x)$  in the form of  $g(x) = f(x) + k$ , then describe how  $f(x)$  and  $g(x)$  compare when graphed on the same coordinate plane.**

9.  $f(x) = 5x + 8$   
 $g(x) = 5x - 4$

10.  $f(x) = 2^x \cdot 3$   
 $g(x) = 2^x \cdot 3 - 7$

$g(x) =$  \_\_\_\_\_  
Translation Form

$g(x) =$  \_\_\_\_\_  
Translation Form

How does  $g(x)$  compare with  $f(x)$  when graphed on the same coordinate plane?

How does  $g(x)$  compare with  $f(x)$  when graphed on the same coordinate plane?