

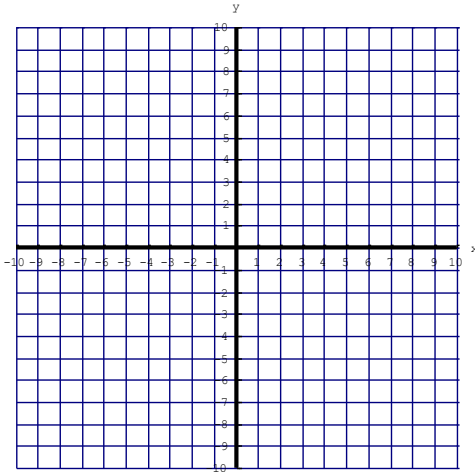
## Module 7 Review

You are given the equation of  $f(x)$  and the transformation  $g(x)$ . Graph both  $f(x)$  and  $g(x)$  and write the linear equation for  $g(x)$  below the graph.

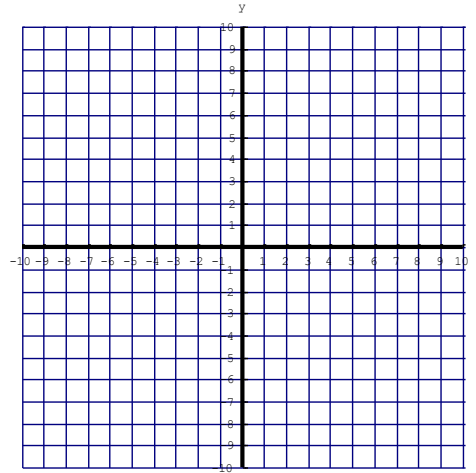
1.  $f(x) = 2x - 1$   
 $g(x) = f(x) + 3$

2.  $f(x) = -\frac{2}{3}x + 5$   
 $g(x) = f(x - 4)$

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



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



You are given information about  $f(x)$  and  $g(x)$ . Rewrite  $g(x)$  in translation form:  $g(x) = f(x) + k$

4.  $f(x) = 7x + 13$   
 $g(x) = 7x + 4$

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

5.  $f(x) = 22x - 12$   
 $g(x) = 22x + 8$

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

7.

$x$	$f(x)$	$g(x)$
3	11	26
10	46	61
25	121	136
40	196	211

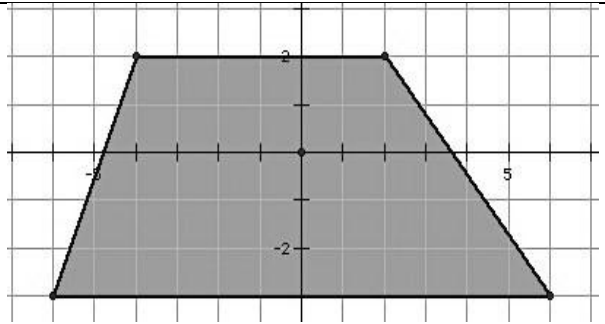
$g(x) =$  \_\_\_\_\_  
 Translation form

8.

$x$	$f(x)$	$g(x)$
-4	5	-42
-1	-1	-48
5	-13	-60
20	-43	-90

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

Find the perimeter of the figure on the right.



Find the slope and the distance between

$(4, -6)$  and  $(3, -12)$

Slope = \_\_\_\_\_

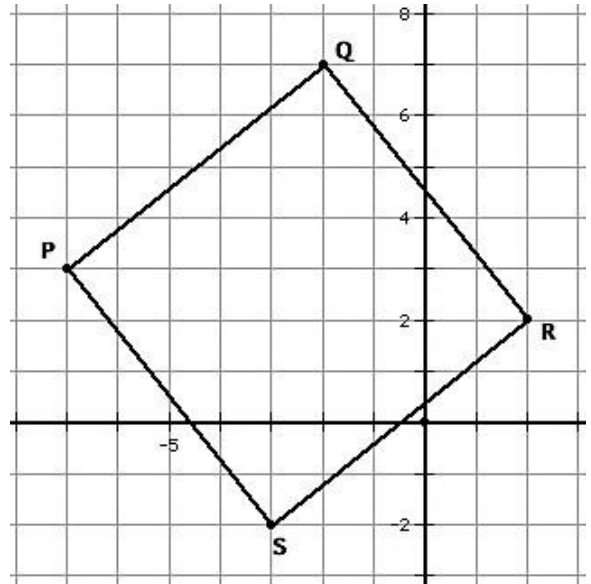
Distance = \_\_\_\_\_

Prove that quadrilateral PQRS on the graph is a rectangle.

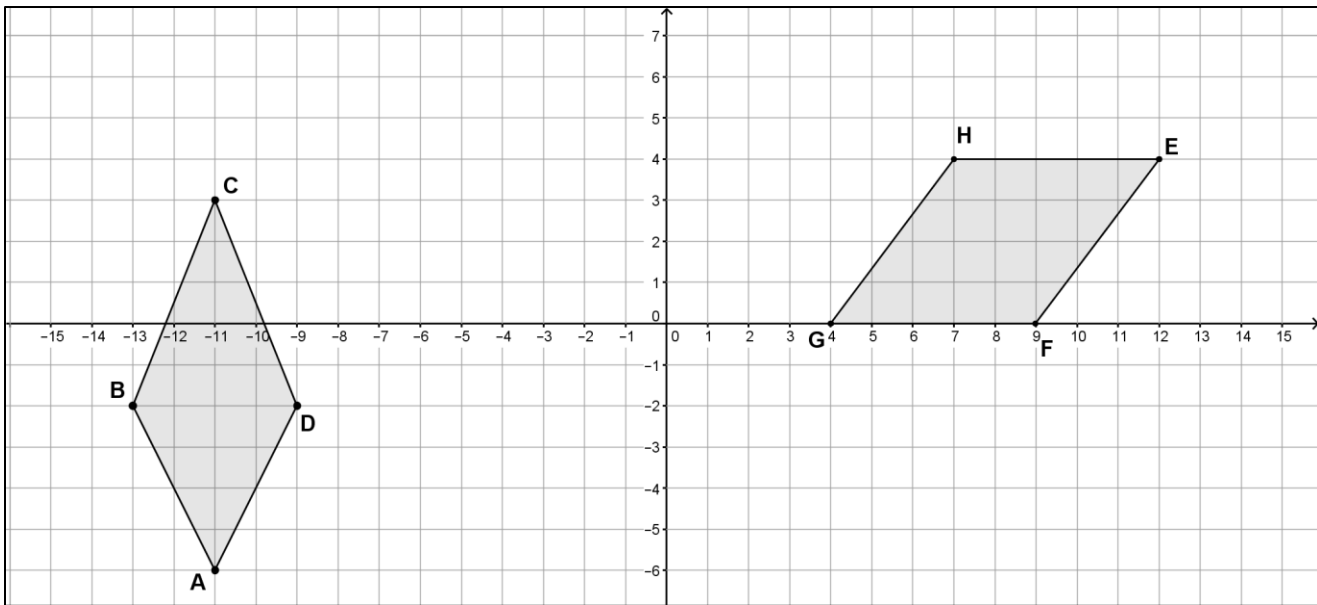
Goal:

WTS:


Evidence:



Conclusion:



**Prove that quadrilateral ABCD on the graph is a parallelogram.**

**Goal:**

**WTS:**


**Evidence:**

**Conclusion:**

**Prove that quadrilateral EFGH on the graph is a rhombus.**

**Goal:**

**WTS:**

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**Evidence:**

**Conclusion:**