

Quiz: Inverse Functions

1 Is  $\{(6, 11), (0, 8)\}$  the inverse of the function  $\{(11, 6), (8, 0)\}$ ?

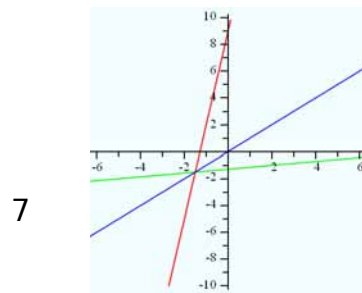
2 Given function  $f$ , is the inverse also a function?  
 $f(x) = \{(0, 7), (0, 2), (3, 8), (1, 0)\}$

3 Find:  $(f \circ f^{-1})(15)$

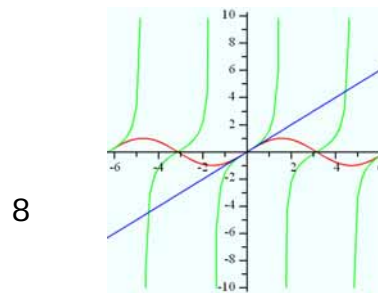
4 Find the inverse for the function  $y = 8x + 9$

5 Find the inverse for the function  $y = (3x + 14)^2$

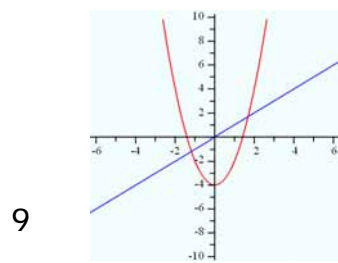
6 Using composition of functions, show that  $f(x) = 2x - 8$  and  $g(x) = x - 4$  are inverse functions.



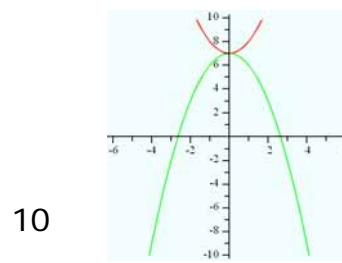
True or False: The straight line graphs shown above are inverses of one another.



True or False: The graphs of  $\sin(x)$  and  $\tan(x)$  are inverses of one another.



True or False: The inverse of the graph shown above will be a function.



True or False: Since  $f(x)$  is a reflection of  $g(x)$ ,  $g(x)$  is also the inverse of  $f(x)$ .

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%