

WORKSHEET

LESSON: M5L6 – Inverses of Linear Functions

1) Find the inverse of the relation in the table

x	y
-4	-2
-2	-1
0	1

$$(-4, -2) \rightarrow (\quad , \quad)$$

$$(-2, -1) \rightarrow (\quad , \quad)$$

$$(\quad , \quad) \rightarrow (\quad , \quad)$$

2) Match the following

Match each function with its inverse function.



Function

Inverse

$$f(x) = 4x - 13$$

$$f^{-1}(x) = \frac{x + 13}{4}$$

$$f(x) = 3x - 8$$

$$f^{-1}(x) = \frac{x + 8}{3}$$

$$f(x) = \frac{1}{2}x - 4$$

$$f^{-1}(x) = \frac{4}{3}x + 16$$

$$f(x) = \frac{3}{4}x - 12$$

$$f^{-1}(x) = 2x + 8$$