

Notes

1.1 Brutus Bites Back Continued

Pages 5

5 Use function notation to show relationship of functions.
 $f(x) = \frac{5}{7}x$ $f^{-1}(x) = \frac{7}{5}x$

6 8 pounds of Brutus Bites for \$6 plus a flat \$5 shipping charge for each order.

(Graphed $\frac{6}{8}x + 5$, $\rightarrow \frac{3}{4}x + 5$) Carol

Now clarify:

$$\frac{3}{4}x + 5$$

$$x = \frac{3}{4}y + 5$$

$$\frac{4}{3}(x - 5) = \left(\frac{3}{4}y\right)\frac{4}{3}$$

$$= y$$

$$\frac{4}{3}(x - 5) = y$$

can be graphed, but the y-int will suck

* pick numbers for x that when subtracted by 5, are divisible by 3

$$y = \frac{4}{3}(x - 5)$$

x	y
5	0
8	4
11	8

8 The functions are inverses because the independent and dependent have switched.

9 function notation to write relationship between the functions:

$$f(x) = \frac{3}{4}x + 5$$

$$f^{-1}(x) = \frac{4}{3}(x - 5)$$