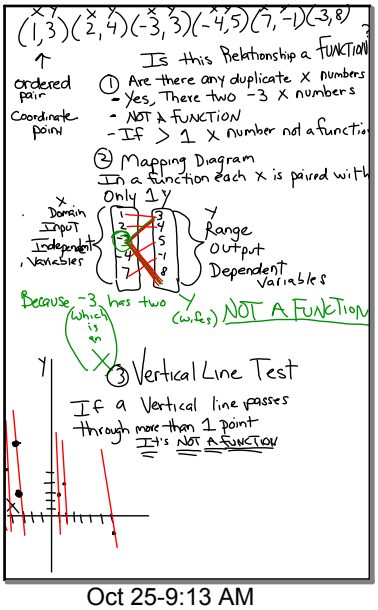
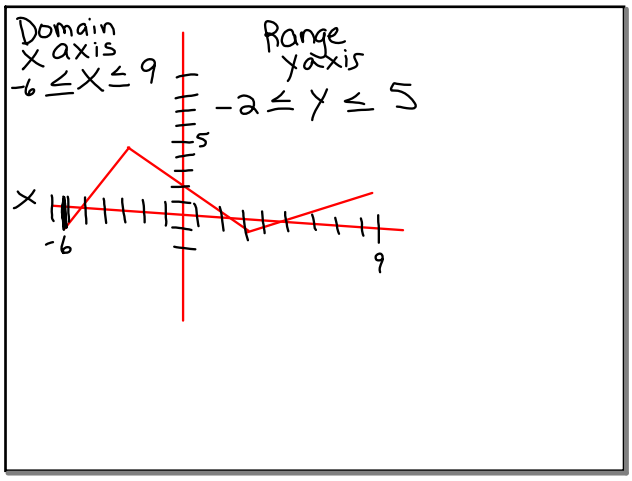


Oct 25-9:13 AM



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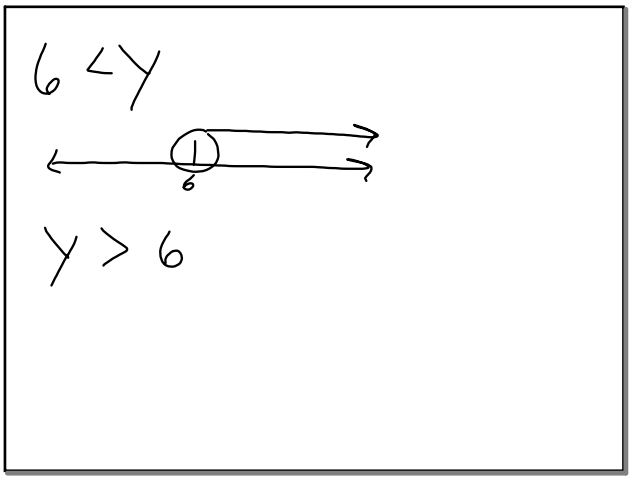

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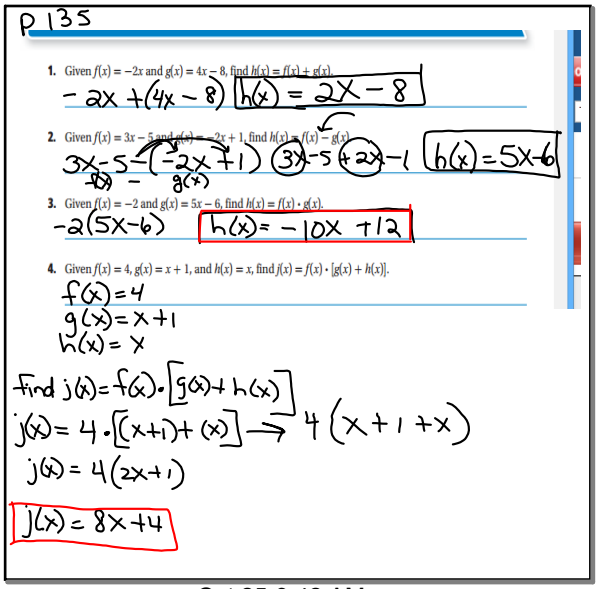
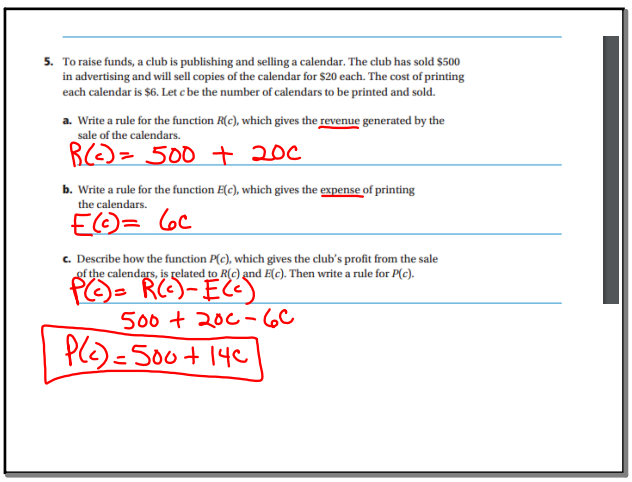


Oct 25-9:42 AM



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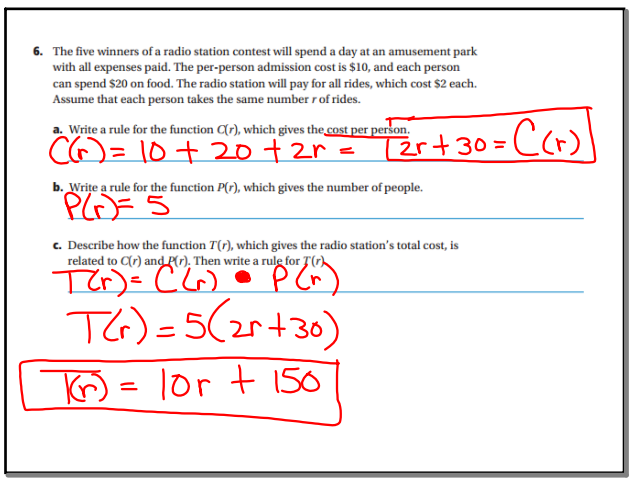


Oct 25-10:03 AM

$\frac{2}{3}$ The Inverse $\frac{3}{2}$

Example

$Y = 5X$ Switching X and Y Then solving for Y

1) $\frac{X}{5} = \frac{5Y}{5}$

$Y = \frac{X}{5}$ or $Y = \frac{1}{5}X$

Oct 25-10:07 AM

p136 (7) Find Inverse $g(x)$

$f(x) = x - 1$

You can say $y = x - 1$

STEP 1 Switch $x \leftrightarrow y$ $x = y - 1$

STEP 2 Solve for y $x + 1 = y$

STEP 3 RENAME $g(x)$ $g(x) = x + 1$

Oct 25-10:09 AM

$P = 8h$

$\frac{P}{8} = h$

Oct 25-10:14 AM

(8) $f(x) = -x + 4$ $g(x) = -x + 4$

a) $y = -x + 4$

b) $x = -y + 4$

c) $x - 4 = -y$

d) $-x + 4 = y$

e) $g(x) = -x + 4$

The inverse is exactly the same.

Why?

Next Page . . .

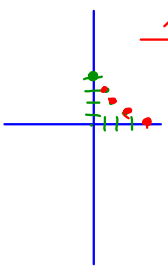
Oct 25-10:16 AM

$f(x) = -x + 4$ & $g(x) = -x + 4$

$y = -x + 4$

x	y
0	4
3	1
1	3
2	2

x	y
4	0
1	3
3	1
2	2



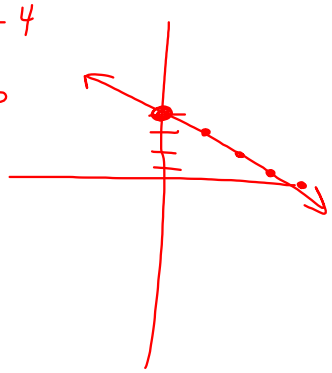
Oct 25-10:19 AM

$y = -x + 4$

$y = mx + b$

$m = -1$

y-intercept $= 4$



Oct 25-10:25 AM

(9) $f(x) = 2x - 3$

$g(x) = \frac{1}{2}x + \frac{3}{2}$

$y = 2x - 3$

Make it easier to look @

$x = 2y - 3$

$+3 \quad +3$

$\frac{x+3}{2} = \frac{2y}{2}$

$\frac{x+3}{2} = y$ or $y = \frac{1}{2}x + \frac{3}{2}$

Book ↑

Oct 25-10:26 AM

(10) $f(x) = \frac{2}{3}x + 6$

$y = \frac{2}{3}x + 6$

$x = \frac{2}{3}y + 6$

$-6 \quad -6$

$x - 6 = \frac{2}{3}y$

$\frac{3}{2}(x-6) = \frac{3}{2}\left(\frac{2}{3}y\right)$

$\frac{3}{2} \cdot \frac{6}{1} = 3$

$\frac{3}{2}x - 9 = g(x)$

Oct 25-10:33 AM

$\frac{6}{5}x = \frac{5}{25} \cdot \frac{6}{5}$

$x = 30$

Oct 25-10:41 AM

$\frac{3}{2} \cdot \frac{2}{3}x = 100 \cdot \frac{3}{2}$

$x = 150$

Oct 25-10:42 AM

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

$y = 3x - \frac{3}{4}$

$x = 3y - \frac{3}{4}$

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

$\frac{1}{3}\left(x + \frac{3}{4}\right) = y$

$\frac{1}{3} \cdot \frac{3}{4} = \frac{3}{12}$

$\frac{1}{3}x + \frac{1}{4} = g(x)$

Oct 25-10:42 AM

$f(x) = -\frac{5}{2}x - \frac{15}{2}$

$y = -\frac{5}{2}x - \frac{15}{2}$

$x = -\frac{5}{2}y - \frac{15}{2}$

$+\frac{15}{2} \quad +\frac{15}{2}$

$-\frac{2}{5}\left(x + \frac{15}{2}\right) = -\frac{5}{2}y \cdot \frac{2}{5}$

$-\frac{2}{5}x - 3 = y$

$g(x) = -\frac{2}{5}x - 3$

Oct 25-10:44 AM