Good Morning Happy Thursday!

Agenda:

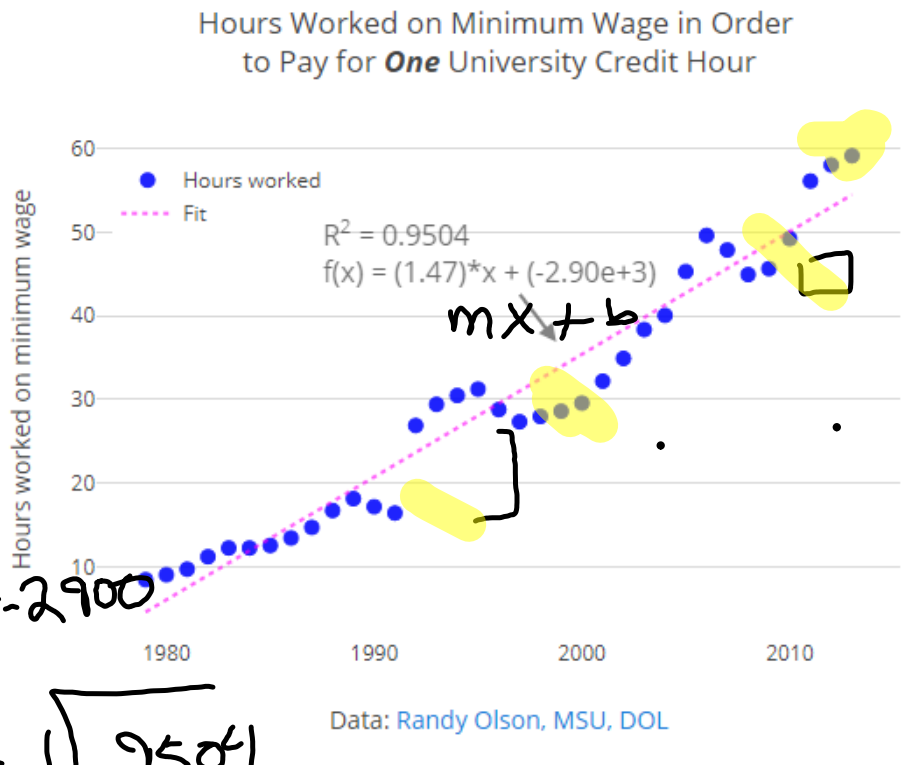
-Warm UP

-Return Tests

-Answer questions from Practice/Delta math

-Continue Inverses.

Warm UP:
Interpret
a) the slope
1.47



b) y-intercep
$-2.90E3$
$-2.90 \times 10^3 = -2900$

c) r-value
$0.9749 = \sqrt{.9504}$

Strong positive correlation b/w year and hours worked @ min wage for one credit.

(6) $f(x) = \frac{x-1}{x+5}$ $x \neq -5$

$y = \frac{x-1}{x+5}$ (1)

$x = \frac{y}{7}$

$y \neq 0$ $x = \frac{y-1}{y+5}$ $(y+5)$ (2)

$y+5(x) = y-1$ (3)

$yx + 5x = y - 1$

$-y \quad -5x \quad -y \quad -5x$

(4) $yx - y = -1 - 5x$

(5) $\frac{y(x-1)}{(x-1)} = \frac{-1-5x}{x-1}$

(6) $y = f^{-1}(x) = \frac{-5x-1}{x-1}$

Verify
two functions are inverses
by compositions

function inside a function

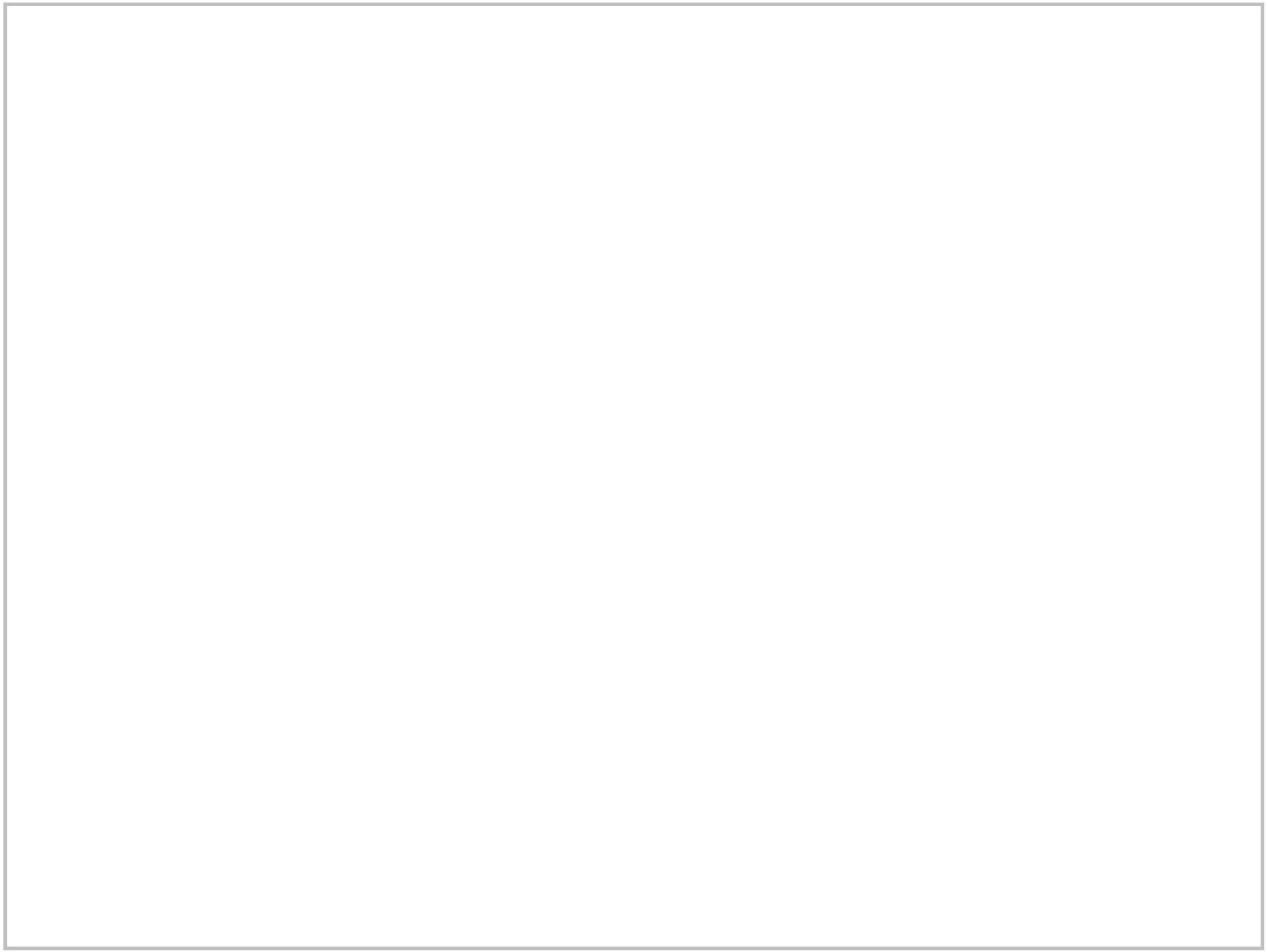
$f(g(x))$ $\quad f(f^{-1}(x))$

f of g of x.

$f(x) = 4x$ $\quad y = 4x$ $\quad y = \frac{x}{4}$

$\frac{x}{4} = \frac{4y}{4}$ $\quad f^{-1}(x) = \frac{x}{4}$

$f(f^{-1}(x)) = 4\left(\frac{x}{4}\right) = x$



Title: Oct 10-10:30 AM (5 of 5)