FRIDAY - Week 2

More Algebraic Equations & Expressions

$$(X-3) = 54$$

$$x = 54$$

$$x = 3 = 54$$

$$\times(\chi_{-3}) - 54 = \emptyset$$

$$x^{2} - 3x - 54 = 0$$

$$(x+6)(x-9)=0$$

$$x^{2} - 9x + 6x - 54 = 0$$
  
 $x(x-9) + 6(x-9) = 0$   
 $(x-9)(x+6) = 0$ 

Start 
$$\frac{1}{x-1} - \frac{x}{x+1} - 2 = 0$$
  $-x^3 + x$   $-2(x-1)(x+1)$   $-x(x-1)$   $-x(x-1)$   $-x(x-1)(x+1)$ 

$$-2(x-1)(x+1)$$

$$-2(x-1)(x+1) = 0$$

$$\frac{(x+1)(x-1)}{(x+1)(x-1)} = 0$$

$$\frac{-3x^2 + 2x + 3}{(x+1)(x-1)} = 0$$

$$-3x^{2} + 2x + 3 = 0 \cdot (x+1)(x-1)$$

$$\chi = -\frac{1}{2} + \sqrt{4 - 4 \cdot (-3)(3)}$$

$$= -\frac{1}{2} + \sqrt{40}$$

$$= (-3)$$

$$\frac{A=-3}{AC=-9}$$

FRACTIONS & ZERO  $\frac{0}{1} = 0$ ,  $\frac{0}{6} = 0$ ,  $\frac{0}{7} = 0$ 

$$\left(\frac{x^{5}y^{2}z^{2}y^{3}}{x^{4}z^{2}x}\right) = x \cdot y \cdot z$$

$$\Gamma = \frac{7}{3}$$
$$S = 7$$

inside first

Enter a quadratic polynomial which has roots at 13/16 and -8

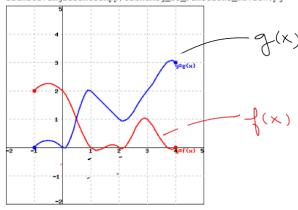
$$(x - \frac{13}{16})(x - (-8))$$

$$(x - \frac{17}{16})(x + 8) = x^{2} + 8x - \frac{13}{16}x - 8(\frac{13}{16})$$

$$= x^{3} + (8 - \frac{13}{16})x - \frac{13}{3}$$

## Fromiem 19. (I point) Library/CollegeOfidano/setAlgebra\_U3\_U2\_Pro

blemSolvingBusinessApp/32IntAlg\_15\_Functions\_Review.pg



$$g \circ f(4) = g(f(4)) = g(0) = 0$$
  
 $f \circ g(4) = f(g(4)) = 1$ 

$$f(g(f(4))) = ?$$

The graph of f is shown in red, and the graph of g is shown in

blue. Use the graphs to evaluate each quantity given below.

NOTE: If only a blue section of graph shows up, that means the red graph is behind it.

NOTE: Round your values to the closest integer.

a) 
$$f(4) = \frac{\bigcirc}{\bigcirc}$$

c) 
$$f(4) + g(4) = 3$$

$$\frac{1}{25+16}$$

