

Feb 19-8:47 AM

Eiven 
$$f(x) = x^2 - 4x$$

1)  $Y - Int \rightarrow x = 0$ ,  $f(0) = 0^2 - 4(0) = 0 \Rightarrow (0,0)$ 

a)  $x - Ints \rightarrow y = 0$ ,  $f(x) = 0$ ,  $x^2 + x = 0 \Rightarrow (0,0) \in (4,0)$ 
 $f(x-4) = 0$   $f(x) = 0$ ,  $f(x) = 0$ ,  $f(x) = 0$ 

3) Simplify, and evaluate  $f(x) = \frac{f(x+h) - f(x)}{h}$  for  $h = 0$ .

$$f(x+h) - f(x) = \frac{(x+h)^2 - 4(x+h) - (x^2 + 4x)}{h}$$

$$= \frac{x^2 + 2xh + h^2 - 4xh}{h} = \frac{x^2 + 2xh + h^2 - 4xh}{h}$$

$$= \frac{x^2 + 2xh + h^2 - 4xh}{h} = \frac{x^2 + 2xh + h^2}{h}$$

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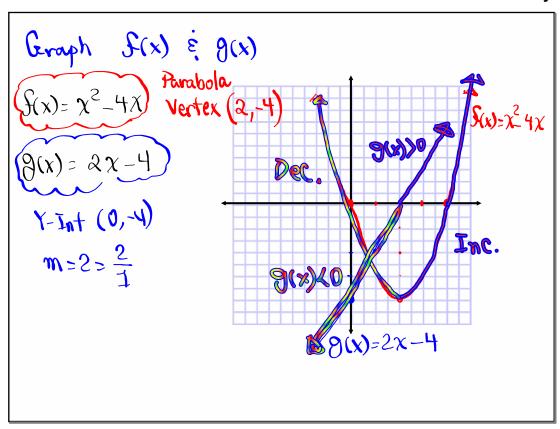
$$= \frac{x^2 + 2xh + h^2 - 4xh}{h} = \frac{x^2 + 4xh}{h}$$

$$= \frac{x^2 + 2xh + h^2 - 4xh}{h} = \frac{x^2 + 4xh}{h}$$

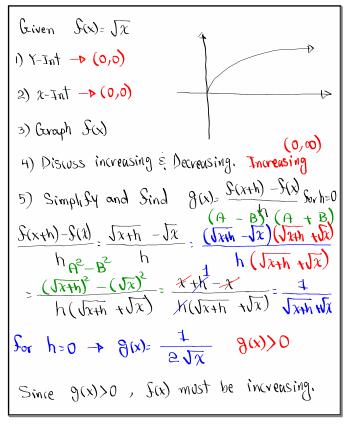
$$= \frac{x^2 + 2xh}{h}$$

$$= \frac{x^2 + 2xh}{h}$$

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Feb 9-9:02 AM

Criven 
$$S(x) = \frac{1}{x}$$

1) Y-Int  $\rightarrow x=0$   $\frac{1}{0}$  undesined  $\rightarrow$  None

2)  $x-Int$ .  $\rightarrow y=0$   $\rightarrow$   $S(x)=0$   $\rightarrow$   $\frac{1}{x}=0$   $\rightarrow$  None

3) Graph  $S(x)$ 

0s  $x \rightarrow 0^{+}$ ,  $y \rightarrow \infty$ 

0s  $x \rightarrow 0^{-}$ ,  $y \rightarrow \infty$ 

0s  $x \rightarrow 0^{-}$ ,  $y \rightarrow 0^{-}$ 

0s  $x \rightarrow 0^{-}$ ,  $y \rightarrow 0^{-}$ 

1) Discuss increasing  $\in$  Decreasing  $(-\infty,0)$   $\cup$   $(0,\infty)$ 

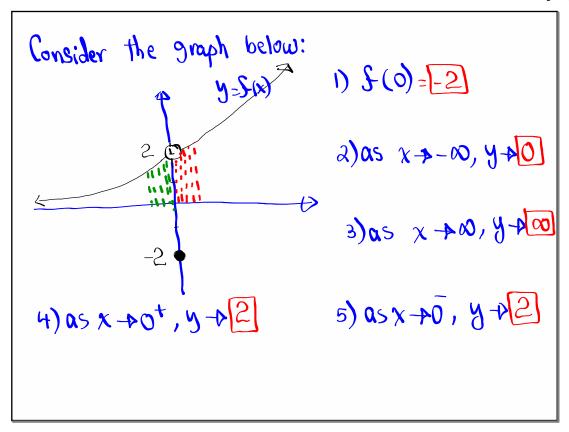
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5) Simplify and find 
$$g(x) = \frac{f(x+h) - f(x)}{h}$$
 for h=0.

$$\frac{f(x+h) - f(x)}{h} = \frac{\frac{1}{x+h} - \frac{1}{x}}{\frac{x+h}{x+h}} = \frac{\chi(x+h) \cdot \frac{1}{x+h} - \chi(x+h) \cdot \frac{1}{x}}{h \cdot \chi(x+h)}$$

$$= \frac{\chi - (\chi+h)}{h \cdot \chi(x+h)} = \frac{\chi - \chi - \chi}{k \cdot \chi(x+h)} = \frac{-1}{\chi(x+h)}$$
For h=0  $\Rightarrow g(x) = \frac{-1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$ ,  $g(x) = \frac{1}{\chi^2}$  gixto  $g(x) < 0$  when  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and  $g(x) < 0$  and  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and  $g(x) < 0$  and  $g(x) < 0$  are  $g(x) < 0$  and

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Feb 9-9:30 AM

Class QZ 1

Solve 
$$3x^2 - 5x = 8$$
 Using the quadratic

formula.  $3x^2 - 5x - 8 = 0$ 
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