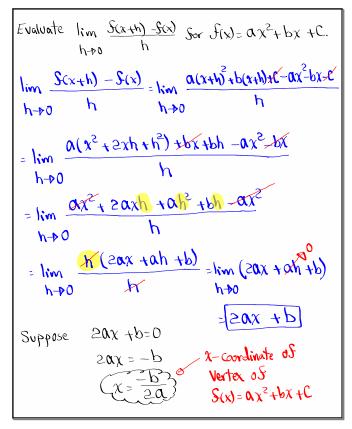
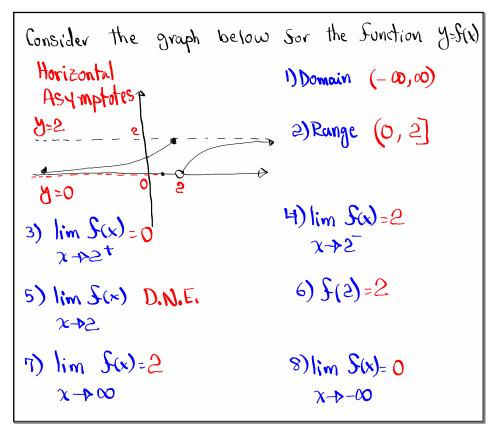


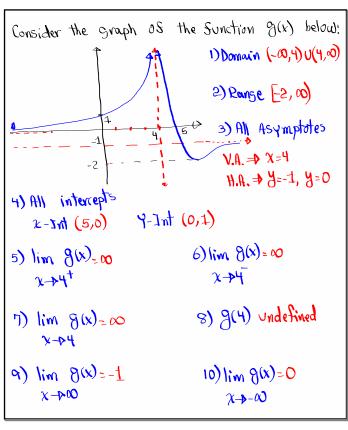
Feb 19-8:47 AM



Feb 13-9:50 AM



Feb 14-8:58 AM



Feb 14-9:06 AM

(kiven 
$$f(x) = \frac{\chi^2 - 2\chi}{\chi - 2}$$
  
1)  $\lim_{\chi \to 3} f(x) = \lim_{\chi \to 3} \frac{\chi^2 - 2\chi}{\chi - 2} = \frac{3^2 - 2(3)}{3 - 2} = \frac{9 - 6}{1} = \frac{3}{1} = \frac{3}{3}$   
2)  $\lim_{\chi \to 0} f(x) = \lim_{\chi \to 0} \frac{\chi^2 - 2\chi}{\chi - 2} = \frac{0^2 - 2(0)}{0 - 2} = \frac{0}{-2} = 0$   
3)  $\lim_{\chi \to 0} f(x) = \lim_{\chi \to 0} \frac{\chi^2 - 2\chi}{\chi - 2} = \frac{2^2 - 2(2)}{2 - 2} = 0$  I.F.  $\chi \to 2$   
 $\lim_{\chi \to 2} \frac{\chi(\chi \to 2)}{\chi \to 2} = \lim_{\chi \to 2} \chi = \frac{2}{\chi \to 2}$ 

Feb 14-9:15 AM

Evaluate

1) 
$$\lim_{x \to 3} \frac{x - 3}{x^2 - 5x + 6} = \frac{3 - 3}{3^2 - 5(3) + 6} = 0$$

1. F.

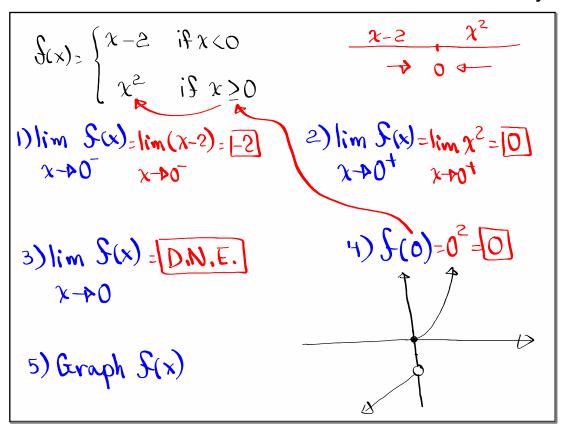
=  $\lim_{x \to 3} \frac{x}{(x - 2)(x - 3)} = \lim_{x \to 3} \frac{1}{x - 2} = \frac{1}{3 - 2} = 11$ 

2)  $\lim_{x \to 3} \frac{4 - 9}{2 - 19} = \frac{4 - 4}{2 - 14} = 0$ 

1. F.

=  $\lim_{x \to 3} \frac{4 - 9}{(x - 2)(x - 3)} = \lim_{x \to 3} \frac{1}{x - 2} = 1$ 

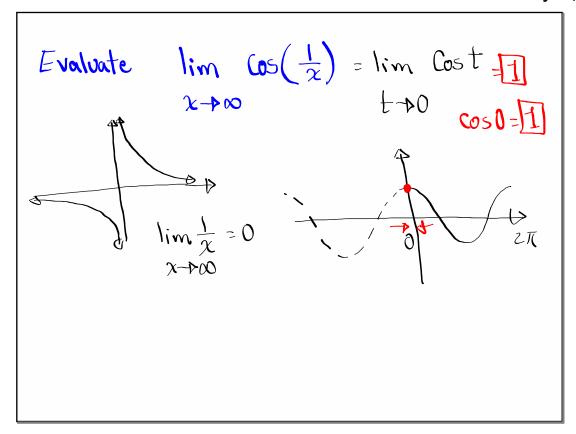
=  $\lim_{x \to 4} \frac{4 - 9}{(2 - 19)(2 + 19)} = \lim_{x \to 4} \frac{4 - 9}{(2 - 19)(2$ 



Feb 14-9:32 AM

$$\int_{(x)} \int_{(x+2)}^{x^2-4} \frac{x}{x+2} = \frac{1}{2} \int_{(x+2)}^{x^2-4} \frac{1}{x+2} \int_{(x+2)}^{x^2-4} \frac{1}{x+$$

Feb 14-9:40 AM



Feb 14-9:45 AM

Evaluate 
$$\lim_{h\to 0} \frac{S(x+h) - S(x)}{h}$$
 for  $S(x) = \sqrt{x}$ 

$$\lim_{h\to 0} \frac{S(x+h) - S(x)}{h} = \lim_{h\to 0} \frac{\sqrt{x+h} - \sqrt{x}}{h} = 0$$

$$\lim_{h\to 0} \frac{(\sqrt{x+h} - \sqrt{x})(\sqrt{x+h} + \sqrt{x})}{h} = \lim_{h\to 0} \frac{x+h}{\sqrt{x+h} + \sqrt{x}} = \frac{1}{2\sqrt{x}}$$

$$\lim_{h\to 0} \frac{1}{\sqrt{x+h} + \sqrt{x}} = \frac{1}{2\sqrt{x}}$$

$$\lim_{h\to 0} \frac{1}{\sqrt{x+h} + \sqrt{x}} = \frac{1}{2\sqrt{x}}$$

$$\lim_{h\to 0} \frac{1}{\sqrt{x+h} + \sqrt{x}} = \frac{1}{2\sqrt{x}}$$

Feb 14-9:50 AM