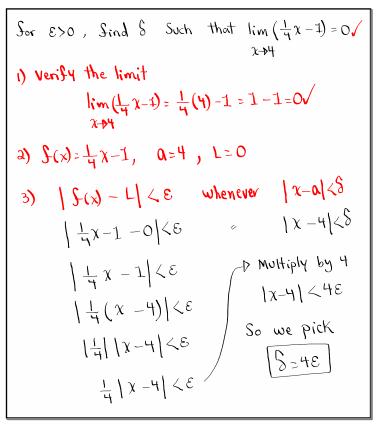


Feb 19-8:47 AM



Feb 21-8:47 AM

Sor any 
$$\varepsilon > 0$$
, Sind  $\varepsilon > 0$ , Such that  $\lim_{x \to -5} (-\frac{2}{5}x_{+}t) = 6$ .

1)  $\lim_{x \to -5} (-\frac{2}{5}x_{+}t) = -\frac{2}{5}(-5) + 4 = 2 + 4 = 6$ 

2)  $\int_{\varepsilon > 0} (x) = -\frac{2}{5}x_{+}t + 4$ ,  $\varepsilon = 0$ ,  $\varepsilon > 0$ 

2)  $\int_{\varepsilon > 0} (x) = -\frac{2}{5}x_{+}t + 4$ ,  $\varepsilon = 0$ 

2)  $\int_{\varepsilon > 0} (x) = -\frac{2}{5}x_{+}t + 4$ ,  $\varepsilon = 0$ 

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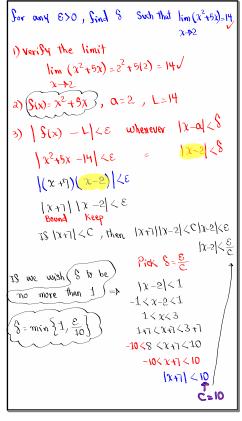
2)  $\int_{\varepsilon > 0} (x) = -\frac{2}{5}x_{+}t + 5$ 

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2)

Feb 21-8:53 AM



Feb 21-9:03 AM

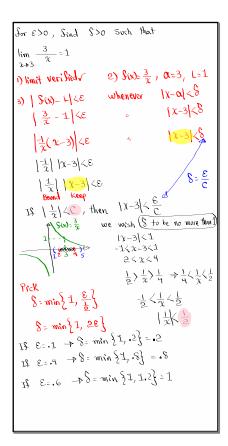
```
for eso, Sind O<8<1 Such that
lim (2x2-5x)=-3.
2+1
1) verify limit / 2) f(x)=2x2-5x, a=1, L=-3
3) | \mathcal{F}(x) - L | < \varepsilon whenever | \chi - \alpha | < \delta
    |2x-3||x-1| \leq \varepsilon
    IS |2x-3| < C, then |x-1| < \frac{8}{C}
Is we wish 8 to be no \Rightarrow \frac{1x-1/\sqrt{1}}{-1/\sqrt{x-1/\sqrt{1}}} more than 1
                                     07×<5
                                     0 < 2x < 4
\delta = \min \left\{ 1, \frac{\varepsilon}{3} \right\}
                                 0-3<2x-3<4-3
                                   -342x-341<3
If \varepsilon = 5 \rightarrow 8 = \frac{3}{5}
                                   -3<2x-3<3
 I$ €=3 → §=I
 IS E=6 + 8= min {1, 5 }=1
```

Feb 21-9:12 AM

```
for 6>0, Sind 8 Such that
 \lim_{x \to \infty} \frac{1}{x} = 2\sqrt{
1) S(x) = \frac{1}{x}, 0 = \frac{1}{2}, 1 = 2
   3) / S(x) - L/<E whenever 1x-a/(8)
                                                                                                                                                     , 1x-12/28
                                                                                                                                                                \sqrt{|\chi-\frac{1}{2}|}
                                                                                                                                                                    Pick 5= 8
                                  \left|\frac{2}{x}\right|\left|\chi-\frac{1}{2}\right|<\varepsilon
         IS \left|\frac{2}{x}\right| < 0, then \left|x - \frac{1}{2}\right| < \frac{8}{0}
                                                   4 500= 1 Can 8=1? Can 8= 1?
                                         NO S(x) Not \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{1} \frac{1}{2} \frac{1}{2} \frac{1}{1} \frac{1}{2} \frac{
                                                                                                                                                                                                            NO
Some reason
         Pick 5 \le \frac{1}{4} \Rightarrow \left| x - \frac{1}{2} \right| < \frac{1}{4}
                                                                                                                                                                                               make reciprocal
Pick S= min 84, 8}
                                                                                                                                                                         Multiply by 2

83 < 2/2 < 8
 T$ €=1 → S= = 1
       15 E= 3 → S= min = 1 + 1 = 3
                                                                                                               = min {.25, .375} = .25
```

Feb 21-9:25 AM



Feb 21-9:43 AM