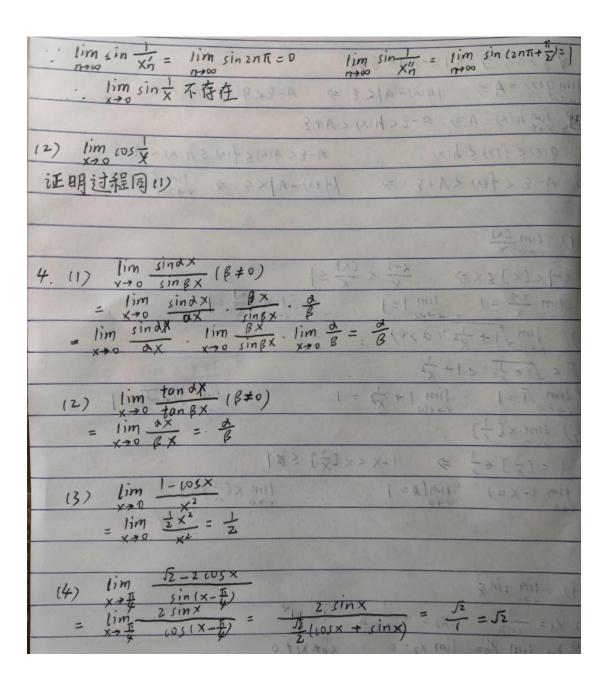
```
1. 4 5>0, 当0 < 1x-x01 < 6时
limg(x) = A => 1g(x)-A| < E => A-E < g(x) < A+E
同理 lim h(x)=A =) A-E<h(x) <A+E
  2.(1) lim [x]
 1 lim s=1 lim 1+ == 1
\frac{(3) \lim_{x \to 0} x[\frac{1}{x}]}{\frac{1}{x} - 1 < [\frac{1}{x}] < \frac{1}{x} \Rightarrow 1 - x < x[\frac{1}{x}] < x}
\frac{1}{x} - 1 < [\frac{1}{x}] < \frac{1}{x} \Rightarrow 1 - x < x[\frac{1}{x}] < x
\frac{1}{x} - 1 < \frac{1}{x} = 1
 3.(1) lim sin X
  \frac{1}{\sqrt{2}} \times 1 = \frac{1}{2n\pi} \times 2 = \frac{1}{2n\pi + \frac{\pi}{2}} = \frac{1}{\sqrt{2}} \times 1 = \frac{1}{2n\pi} \times 2 = 0
\frac{1}{\sqrt{2}} \times 1 = \frac{1}{2n\pi} \times 2 = 0
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```



5. (1) $\lim_{x \to 0} (1-3x)^{\frac{1}{x}}$ = $\lim_{x \to 0} [1+(-3x)]^{-3x}$ e-3 12) lim 1-X - (X12) $= \lim_{X \to \omega} \left[1 + \left(-\frac{1}{X+2} \right) \right]$ $= \lim_{X \to \omega} \left[-\frac{1}{X+2} \right] = e^{-1}$ (3) lim (1+ sin x) 3(5CX = lim (1+ sin x) sinx - $= e^3$ $lim_{x\to\infty} \left(\frac{x+1}{x-1}\right)^{x}$ $= \lim_{x \to \infty} (1 + \frac{2}{x-1})$ $= \lim_{x \to \infty} e^{\frac{2x}{x-1}} =$