习题 3.4.

(16) 2

(18)
$$\lim_{x\to 0} \frac{\arctan x^2}{\sqrt{1+x\sin x} - \sqrt{\cos x}} \cdot (2 - \frac{x}{e^x + 1})$$

$$= \lim_{x\to 0} \frac{x^2}{1+x\sin x - \cos x} \cdot \lim_{x\to 0} (\sqrt{1+x\sin x} + \sqrt{\cos x}) \cdot \lim_{x\to 0} (2 - \frac{x}{e^x + 1})$$

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

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

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

(20) 0

35.

由如本为拐点、

(4) (-10,-3) (4,+10) 亞

(-3,-1) 27

楊惠为 -3,-1

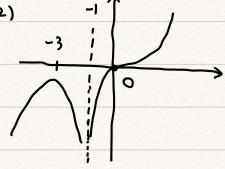
(6) ((2k-1)可, 2k可) 号

(२६म, (२६स)म) 🗓

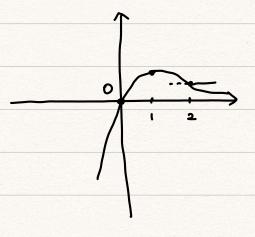
据点为 km

keZ.





(4)



x= 2 提点.

x=1 极值点