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$$\lim_{x \rightarrow 0} \frac{\log(x^2 + \operatorname{arctg} 3x)}{\log(5^x - \cos x)}$$

$$= \lim_{x \rightarrow 0} \frac{\log \left[x \left(x + 3 \frac{\operatorname{arctg} 3x}{3x} \right) \right]}{\log \left[(5^x - 1) + 1 - \cos x \right]}$$

$$= \lim_{x \rightarrow 0} \frac{\log x + \log \left(x + \frac{3 \operatorname{arctg} 3x}{3x} \right)}{\log \left[x \left(\frac{5^x - 1}{x} + \frac{1 - \cos x}{x} \right) \right]}$$

1 - Fighter

2 dischetti 1.44

gioco (DOS)

3 - F15

1 dischetto 1.44

gioco (DOS)

$$\lim_{x \rightarrow 0} \frac{\log x + \log \left(x + \frac{3 \arctan 3x}{3x} \right)}{\log x + \log \left(\frac{5^x - 1}{x} + \frac{1 - \cos x}{x} \right)}$$

$$\lim_{x \rightarrow 0} \frac{1 + \frac{\log \left(x + \frac{3 \arctan 3x}{3x} \right)}{\log x}}{1 + \frac{\log \left(\frac{5^x - 1}{x} + \frac{1 - \cos x}{x} \right)}{\log x}}$$

$$= \frac{1}{1}$$

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