Dmirry Beresnev B20-02
18.03.2002 |VL| $\lim_{x\to 0} \sin(x) \cdot \ln(x) = \lim_{x\to 0} \frac{\ln(x)}{\sin(x)} + \frac{1}{\sin(x)}$ $\lim_{x\to 0} \frac{1}{\sin(x)} = \lim_{x\to 0} \frac{1}{\sin(x)}$ $\lim_{x\to 0} \frac{1}{\sin(x)} = \lim_{x\to 0} \frac{1}{\sin(x)}$

 $= \lim_{x \to \infty} \frac{\sin^2 x}{\cos x \cdot x} + \lim_{x \to \infty} \frac{2\sin x \cdot \cos x}{\sin x - \cos x} = \lim_{x \to \infty} \frac{0}{-1} = 0$

Answer: 0