AS1-Prof. Sovies

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

$$\lim_{x \to 0} \frac{x^2 - x}{x = -1}$$

b) 
$$\lim_{x\to 1} \frac{x^2-x}{\text{Nen}(3x)} = \frac{1^2-1}{\text{Nen}(3)} = 0$$

$$\lim_{x \to 1} \frac{x^2 - x}{\text{Nen}(3x)} = 0$$

C) 
$$\lim_{\chi \to -1} \frac{\sqrt{\chi^2 - 1} - \sqrt{2}}{\sqrt{2} - 1} = -\infty$$

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