29/10/2020

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$$\lim_{x$$

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$$\lim_{x \to -2} e^{\frac{x^2 - 4}{x + 2}} = \lim_{x \to -2} e^{\frac{(x - 2)(x + 2)}{x + 2}} = e^{\frac{x^2 - 4}{x + 2}}$$

$$\lim_{x \to -2} \frac{\ln (3 - x)}{x^3 - x^2 - 6x} = \lim_{x \to -2} 0^{\frac{1}{2}} = e^{\frac{x^2 - 4}{2}} = e^{-\frac{x^2 - 4}{2}}$$

$$\lim_{x \to -2} \frac{\ln (3 - x)}{x^3 - x^2 - 6x} = \lim_{x \to -2} 0^{\frac{1}{2}} = e^{-\frac{x^2 - 4}{2}} = e^{-\frac{x^2 - 4}{2}}$$

$$\lim_{x \to -2} \lim_{x \to -2} \log_{2} \frac{\ln (3 - x)}{x^3 - x^2 - 6x} = \lim_{x \to -2} \log_{2} \frac{\ln (3 - x)}{x^2 - 3} = \lim_{x \to -2} \log_{2} \frac{\ln (3 - x)}{x^2 - 3} = \lim_{x \to -2} \log_{2} \frac{\sqrt{x} + 1}{x^2 + 1} = \log_{3} \frac{1}{3} = \log_{3}$$

$$=\lim_{x\to 0^+} \lim_{x\to 0^+} \left(2 - \frac{3}{\ln x}\right) = 2 = -2$$

$$= \lim_{x\to 0^+} \lim_{x\to 0^+} \left(\frac{12}{\ln x} - 1\right) = -1$$