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BASIC CALCULUS EXAM

Part 1: Limits

Evaluate the following limits

2)
$$\lim_{x\to 0} \frac{\sqrt{x+3} - \sqrt{3}}{x}$$

5)
$$\lim_{X\to 0^-} x^3 \cos\left(\frac{2}{x}\right)$$

$$\lim_{X\to -\infty} \frac{X^2 \left(\operatorname{sim}X + \cos^3 X \right)}{\left(X^2 + 1 \right) \left(X - 3 \right)}$$

10)
$$\lim_{x\to +\infty} \sqrt{\frac{x^3+7x}{4x^3+5}}$$

11)
$$\lim_{X \to +\infty} (3^X + 3^{2X})^{\frac{1}{X}}$$

For
$$|a-15|$$

$$f(x) = \begin{cases} \frac{1}{x^2} & \text{if } x < -1 \\ 2 & \text{if } -1 \le x < 1 \\ 3 & \text{if } x = 1 \\ x + 1 & \text{if } 1 < x \le 2 \\ \frac{-1}{(x-2)^2} & \text{if } x > 2 \end{cases}$$

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