

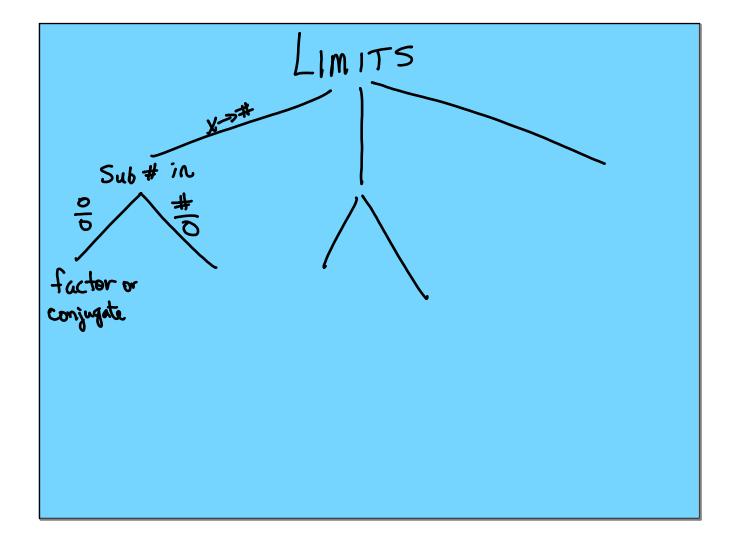
Domain:
$$[-5, \infty)$$
 $f(-2) = \text{Undef.} \iff \text{hok or asymp.}$
 $f(3) = 1$
 $\lim_{x \to -2^{-}} f(x) = +\infty$
 $\lim_{x \to -2^{-}} f(x) = \text{ONE} \iff \text{Not going}$
 $\lim_{x \to -2^{-}} f(x) = -1$
 $\lim_{x \to 3} f(x) = -1$

$$\lim_{X \to 1} x^{2} + 3 = 4$$

$$\lim_{X \to 2} \frac{3x^{2} - 4x - 4}{x - a} = \frac{12 - 8 - 4}{2 - 2} = 0 \text{ indeterminate}$$

$$\lim_{X \to 2} \frac{(3x + a)(x - a)}{x - a} = 3(a) + a = 8$$

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$$\int_{1\pi^{2}} \frac{x^{2} - 4x + 3}{x^{3} - 27} = \frac{9 - 12 + 3}{27 - 27} = 0$$

$$\int_{1\pi^{2}} \frac{(x - 1)(x - 3)}{(x - 3)(x^{2} - 3x + 9)} = \frac{3 - 1}{3^{2} + 3(3) + 9} = \frac{2}{27}$$

$$\int_{3\pi^{2}} \frac{(x - 1)(x - 3)}{(x - 3)(x^{2} - 3x + 9)} = \frac{3 - 1}{3^{2} + 3(3) + 9} = \frac{2}{27}$$

$$\int_{3\pi^{2}} \frac{(2 - 15)}{(x - 3)(x^{2} - 3x + 9)} = \frac{3 - 3}{2 + 15} = 0$$

$$\int_{1\pi^{2}} \frac{(2 - 15)}{(x - 15)(x^{2} - 3x + 9)} = \frac{1}{\sqrt{9 + 6} + 3} = 0$$

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