

Mathematics Department
2020/2021

Name:	Limits Involving Infinity: Asymptotes	Date
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Chose the correct answer

$$\lim_{x \rightarrow \infty} \frac{3x^3 + 5x + 1}{x^3 + 2x^2}$$

a) ∞	b) $-\infty$	c) 3	d) 0
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$$\lim_{x \rightarrow \infty} \frac{2x^2 - 5x + 3}{x^3 - 2x}$$

a) ∞	b) $-\infty$	c) 2	e) 0
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$$\lim_{x \rightarrow \infty} \frac{-2x^2 - 4}{3x + 1}$$

a) ∞	b) $-\infty$	c) $-\frac{2}{3}$	f) 0
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$$\lim_{x \rightarrow -\infty} \frac{x^3 - 5x + 1}{x^2 + 2x + 5}$$

a) ∞	b) $-\infty$	c) 1	g) 0
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$$\lim_{x \rightarrow -\infty} \frac{x^2 - 3x}{4 - x^2}$$

a) ∞	b) $-\infty$	c) -1	h) 0
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