

Math101 Term181
Sec 13 Quiz 1

Name	ID	Sr
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Q1) (5 points) Evaluate the following limit if it exists (Show your work)

$$\lim_{x \rightarrow 2^+} \frac{|x^2 - 5x + 6|}{(x^2 - 4)\sqrt{x + 2}}$$

Q2 (5 points) Use limits to find all vertical asymptotes for the function

$$f(x) = \frac{x^2 - 5x}{x^2 - 3x - 10} \quad (\text{Justify your steps})$$

Math101 Term181
Sec 17 Quiz 1

Name	ID	Sr
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Q1) (5 points) Evaluate the following limit if it exists (Show your work)

$$\lim_{x \rightarrow 1} \frac{\sqrt{x^2 + 3x} - \sqrt{x^2 + 3}}{x^2 + 2x - 3}$$

Q2 (5 points) Use limits to find all vertical asymptotes for the function

$$f(x) = \frac{x^3 + 2x^2}{x^2 + 5x + 6} \quad (\text{Justify your steps})$$

Math101 Term181
Sec 18 Quiz 1

Name	ID	Sr
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Q1) (5 points) Evaluate the following limit if it exists (Show your work)

$$\lim_{x \rightarrow 1} \frac{x^2 + 4x - 5}{\sqrt{3x + 1} - \sqrt{x^2 + 3}}$$

Q2 (5 points) Use limits to find all vertical asymptotes for the function

$$f(x) = \frac{x^2 - 5x + 4}{x^2 - 4x + 3} \quad (\text{Justify your steps})$$

Math101 Term181
Sec 21 Quiz 1

Name	ID	Sr
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Q1) (5 points) Evaluate the following limit if it exists (Show your work)

$$\lim_{x \rightarrow 2} \frac{\sqrt{4x+1} - \sqrt{5x-1}}{\sqrt{3x-2} - \sqrt{x+2}}$$

Q2 (5 points) Use limits to find all vertical asymptotes for the function

$$f(x) = \frac{x^2+2x-3}{(x-1)^2(x+1)} \quad (\text{Justify your steps})$$