MTH 1125 Test #1 - (2 pm class)

FALL 2018

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Instructions. Show CLEARLY how you arrive at your answers.

1. Compute: $\lim_{x\to 2} \frac{x^2+2x+12}{x^2+6x-12} =$

2. Compute: $\lim_{x\to -1} \frac{x^2-5x-6}{x^2-2x-3} =$

3. Compute: $\lim_{x\to 2} \frac{x^2-2x-15}{x^2+2x-8} =$

4. Compute: $\lim_{x\to -\infty} \frac{x^4+4x^3-8x}{9x^3+4x-5} =$

5. $f(x) = \frac{x^2-4x+3}{x^2-3x-10}$ Find the asymptotes and graph

6. Compute: $\lim_{x\to 3} \frac{\sqrt{x+22}-5}{x-3} =$

7.

$x =$	$f(x) =$
-9.1	-2.5
-90.8	-2.1
-900.3	-2.01
$-9,000.3$	-2.001
$-90,000.9$	-2.0001

$x =$	$f(x) =$
9.1	-1.5
90.8	-1.9
900.3	-1.99
$9,000.3$	-1.999
$90,000.9$	-1.9999

Based on the information in the table above, do the following:

(a) $\lim_{x\to -\infty} f(x) =$

(b) $\lim_{x\to +\infty} f(x) =$

(c) Graph $f(x)$