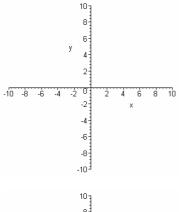
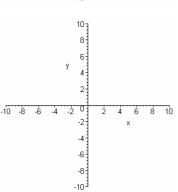
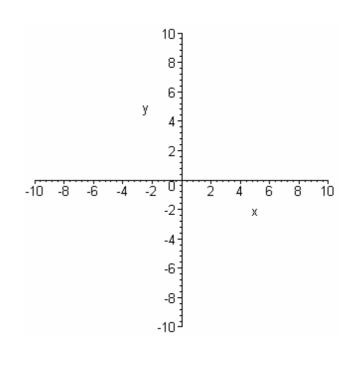
Name:

QUIZ - MATH GRADE 11

- 1. (25%) Given the function: $f(x) = \begin{cases} x-1 & x < 2 \\ x^2 1 & x \ge 2 \end{cases}$
 - a. (6%) Sketch each part on the left (indicate asymptotes and x and y intercepts on the graphs).
 - b. (10%) Sketch the piecewise function. (indicate asymptotes and x and y intercepts on the graphs).

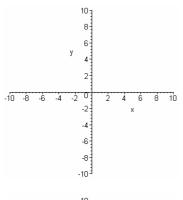


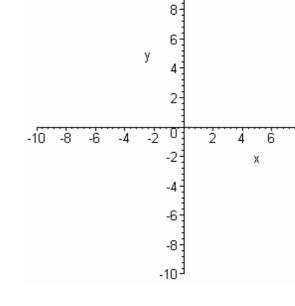




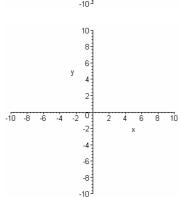
- c. (2%) State its domain:_____
- d. (3%) State its range:
- e. (2%) Increase:_____
- f. (2%)Decrease:_____

- 2. (25%) Given the function: $f(x) = \begin{cases} \ln(-x) & x < 1 \\ \frac{1}{2-x} & 1 < x \end{cases}$
 - a. (6%) Sketch each part on the left (indicate asymptotes and x and y intercepts on the graphs).
 - b. (10%) Sketch the piecewise function. (indicate asymptotes and x and y intercepts on the graphs).





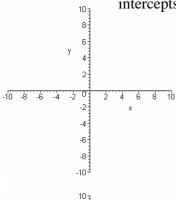
107

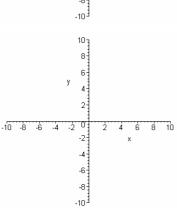


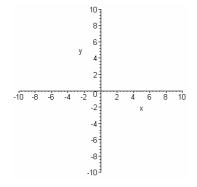
- c. (2%) State its domain:_____
- d. (3%) State its range:
- e. (2%) Increase:_____
- f. (2%)Decrease:_____

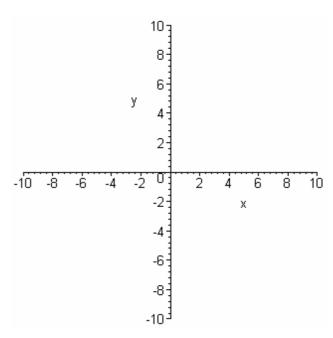
10

- 3. (25%) Given the function: $f(x) = \begin{cases} e^{(-x)} & x < 1 \\ -x^2 + 2 & 1 \le x \text{ and } x < 3 \\ -\sqrt{x 2} & 3 \le x \end{cases}$
 - a. (6%) Sketch each part on the left (indicate asymptotes and x and y intercepts on the graphs).
 - b. (10%) Sketch the piecewise function. (indicate asymptotes and x and y intercepts on the graphs).







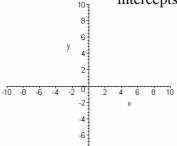


- c. (2%) State its domain:_____
- d. (3%) State its range:_____
- e. (2%) Increase:_____
- f. (2%)Decrease:_____

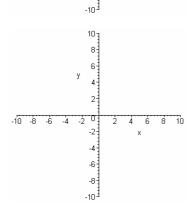
4. (25%) Given the function:

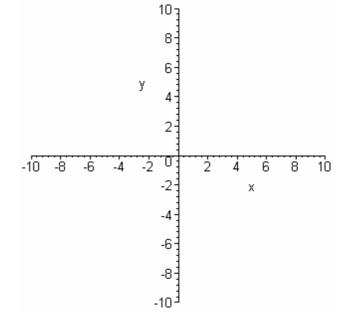
$$f(x) = \begin{cases} -(x+1)^2 & x \le 0 \\ 2x-1 & 0 < x \text{ and } x < 3 \\ e^x & 3 \le x \end{cases}$$

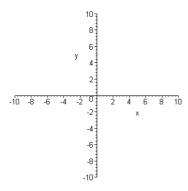
- a. (6%) Sketch each part on the left (indicate asymptotes and x and y intercepts on the graphs).
- b. (10%) Sketch the piecewise function. (indicate asymptotes and x and y intercepts on the graphs).



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- c. (2%) State its domain:_____
- d. (3%) State its range:_____
- e. (2%) Increase:_____
- f. (2%)Decrease:_____