Math 1271 - Lectures 010 and 030

Name (Print): BASHIR JAMA

Fall 2017 Quiz 8C 11/07/17

Time Limit: 25 Minutes

Teaching Assistant

You may not use your books, notes, graphing calculator, phones or any other internet devices on this exam.

You are required to show your work on each problem on this quiz.

| Problem | Points | Score |
|---------|--------|-------|
| 1 | 3 | 1.75 |
| 2 | 4 | 1,25 |
| 3 | 3 | 6 |
| Total: | 10 | 3 |

1. (3 points) Starting with the initial guess $x_1 = -2$, use Newton's method to approximate a root to the equation $e^x + x^2 - 3 = 0$ to eight decimal places.

$$\int (x) = e^{x} + x^{2} - 3$$

$$\int (x) = e^{x} + 2x$$

$$+13-x_{n+1}=x_n-\frac{8(x)}{8(x)}$$

$$f(-2) = e^{-2} + (-2)^{2} - 3 | f(x_{2}) = e^{-2} + (x_{2})^{2} - 3 | f(x_{2}) = e^{-2} + 2 | f(x_{2}) = e$$

$$f(-2) = e^{-2} + 2(-2)$$

$$x_4 = x_3 - \frac{g(x_3)}{g(x_3)}$$

0-181544541- 1-713953941 -2-91126958

2. (4 points) If 600π cm² material is available to make a cylinder with an open top, find the largest possible volume of the cylinder.

Hint: The surface area of a cylinder with an open top is $\pi r^2 + 2\pi r h$, where r is the base radius, h is the height.

S2 Triatrh V=600TCm V=ZTTYZh

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3. (3 points) Show that the curve $y = \sqrt{x^2 + 5} + 2x$ has one slant asymptote at y = 3x and one horizontal asymptote at y = 0.

4= Vx 75 +2x

And this One.

DON'T be discouraged!