"QUIZ" for Lecture 6

NAME: (print!) Niharika Kompella Section: 23

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q6FirstLast.pdf) ASAP BUT NO LATER THAN Sept. 24, 8:00pm

1. Find the limit if it exists, or show that the limit does not exist.

$$\lim_{(x,y)\to(0,0)} \frac{2x}{2x+3y}$$

$$\lim_{(x,y)\to(0,0)} \frac{2(0)}{2(0)+3(0)}$$

$$\lim_{(x,y)\to(0,0)} \frac{0}{0} \to \text{indeterminate}$$

$$\lim_{(x,y)\to(0,0)} \frac{0}{0} \to \frac{1}{0}$$

2. Find the limit if it exists, or show that the limit does not exist.

$$\lim_{(x,y)\to(0,0)} \frac{x^5}{x^2+y^2}$$

$$\lim_{(x,y)\to(0,0)} \frac{0^5}{0^2+o^2}$$

$$\lim_{(x,y)\to(0,0)} \frac{0}{0} \to \text{indeterminate}$$

$$\lim_{(x,y)\to(0,0)} \frac{5}{2x+2y} \to \lim_{(x,y)\to(0,0)} \frac{5}{2(0)+2(0)}$$

$$\lim_{(x,y)\to(0,0)} \frac{5}{2(0)+2(0)}$$

$$\lim_{(x,y)\to(0,0)} \frac{0}{0} \text{ indeterminate}$$

$$\lim_{(x,y)\to(0,0)} 0$$

$$\lim_{(x,y)\to(0,0)} 0$$