

Math 223 Quiz 5

Name:

Given that  $f(x, y, z) = xy + z$ ,  $a = (-1, -1, -1)$ , and  $b = (2, 3, 5)$ , find  $c$  on the line segment connecting  $a$  and  $b$  such that  $f(b) - f(a) = \nabla f(c) \cdot (b - a)$ .