

# Math 2143 - Brief Calculus with Applications

Quiz #7 - 2013.02.07

Name: \_\_\_\_\_

---

1. Find  $\frac{dy}{dx}$  if  $x^2y^3 + x^3y^4 = 11$ .

2. If  $f^2 + g^2 = 10$ , find  $\frac{dg}{dt}$  when  $f = 3$ ,  $g = 1$  and  $\frac{df}{dt} = -2$ .