

## MATH 141: QUIZ 6 SECTIONS 3.7 AND 3.8

Name and Section: \_\_\_\_\_

**No phone or calculator.** You must show all work to receive full credit. Simplify your coefficients when applicable.

1. **(5 points)** Use implicit differentiation to find  $\frac{dy}{dx}$ :

$$(3xy + 7)^2 = 6y$$

2. **(5 points)** Use logarithmic differentiation to find  $y'$ :

$$y = x^{\sin x}$$