

Math 112 (Fall 2009) Quiz 1 (20 points)

Name: _____

Discussion 11:00 12:05

1. (10 points) Rewrite the following expressions without negative exponents and simplify as much as possible

(a)

$$\left(\frac{x^8 y^{-3}}{x^3 y^5}\right)^{-3}$$

(b)

$$\left(\frac{x^2 y^3}{\sqrt{x-y}}\right)^2$$

2. (10 points) Rewrite the following expressions without negative exponents and simplify as much as possible

(a)

$$(a + \sqrt{b})^2$$

(b)

$$x^{1/4}(4x)^{1/3}$$