

Math 70 Quiz #9
November 23, 2010

Name: _____

Show all work and answers on a separate paper. Staple this sheet to your answers. **Simplify** your answers as much as possible.

1. Simplify the following. Express your answers with positive exponents.

(a) (1 pts.) $\frac{x^{10}}{x^3}$

(f) (1 pts.) $(9x^5)^2$

(b) (2 pts.) $\frac{-4y^2}{2y^8}$

(g) (1 pts.) $(\frac{xy}{2})^3$ ← $\frac{xy}{2}$ to the third power

(c) (2 pts.) $\frac{5a^2b^3}{15ab^3}$

(h) (1 pts.) 6^{-2}

(d) (1 pt.) $(x^3)^4$

(i) (1 pts.) $x^{-3}y$

(e) (3 pts.) $\frac{(-6x^3)^2}{(3x^5)^3}$

(j) (2 pts.) $7m^2n(-2mn)^3$