

Name:

Quiz 1

1. Simplify each expression and write with only positive exponents

(a) (2 points)  $\left(\frac{x^3}{-27y^{-6}}\right)^{-2/3}$

(b) (2 points)  $(x^2y^{-3})(x^{-5}y^3)$

2. (5 points) Find the real roots of  $4t^2 + 2t - 2$  by factoring.

3. (a) (5 points) Find the equation of the line passing through the points  $(1, 4)$  and  $(3, -12)$ .

(b) (1 point) What are the  $x$  and  $y$  intercept for the line in the previous question?

(c) (5 points) Draw the line on the  $xy$ -coordinate system. Points will be taken off for sloppy drawing. Label axis and important points.