Name: _____ **Date:** _____ **Period:** _____

5-1,2 HONORS Solving Systems of Equations
PRACTICE QUIZ

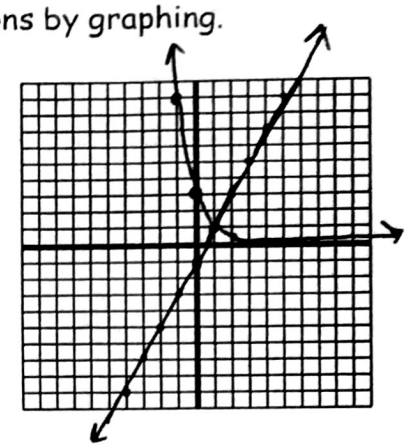
Show all your steps

1. Solve the following system of equations by graphing.

$y = 2x - 1$

$y = 3\left(\frac{1}{3}\right)^x$

x	y
-2	27
-1	9
0	3
1	1
2	1/3



Solve.

2. $x = -6y$

$4x + 9y = 5$

$4(-6y) + 9y = 5$

$-24y + 9y = 5$

$\frac{-15y}{-15} = \frac{5}{-15}$

$y = -1/3$

$x = -6(-1/3)$

$x = 2$

Solve.

3. $3x - 5y = -10$

$y = \frac{3}{5}x + 2$

$3x - 5\left(\frac{3}{5}x + 2\right) = -10$

$3x - 3x - 10 = -10$

$-10 = -10$

true

Answers

1. (1,1)

2. (2, -1/3)

3. infinitely many solutions

4.

$$4x-3y=-15$$
$$5x+3y=-3$$
$$9x=-18$$
$$x=-2$$

$4x-3y=-15$
$4(-2)-3y=-15$
$-8-3y=-15$
$+8 \quad +8$
$-3y=-7$
$y=7/3$

4. $(-2, 7/3)$

5. * Different ways to solve

$$4x-3y=-3$$
$$-4\cdot(x-2y=8)$$
$$-4x+8y=-32$$
$$4x-3y=-3$$
$$5y=-35$$
$$y=-7$$

$4x-3y=-3$
$4x-3(-7)=-3$
$4x+21=-3$
$4x=-24$
$x=-6$

5. $(-6, -7)$