

Quiz #3

① a) $9x^2 - 3x - 2 = 0$

M -18

A -5 Need Quad Formula!

1,18
2,9
3,6

X

$$x = \frac{3 \pm \sqrt{(-3)^2 - 4(9)(-2)}}{2(9)}$$

$$= \frac{3 \pm \sqrt{81}}{18}$$

$$= \frac{3 \pm 9}{18}$$

$$x = \frac{3+9}{18}$$

$$= \frac{12}{18}$$

$$\boxed{= \frac{2}{3}}$$

$$x = \frac{3-9}{18}$$

$$= \frac{-6}{18}$$

$$\boxed{= -\frac{1}{3}}$$

b) $-(x-1)^2 = -9$

$$(x-1)^2 = 9$$

$$x-1 = \pm 3$$

$$x = 1+3$$

$$\boxed{= 4}$$

$$x = 1-3$$

$$\boxed{= -2}$$

c) $-8x = 4x^2 - 1$

$$0 = 4x^2 + 8x - 1$$

M -4

A -8

Need Quad

X

$$x = \frac{-8 \pm \sqrt{64 - 4(4)(-1)}}{2(4)}$$

$$= \frac{-8 \pm \sqrt{80}}{8}$$

$$= \frac{-8 \pm 4\sqrt{5}}{8}$$

$$x = \frac{-2 \pm \sqrt{5}}{2}$$

Nilroy