WAZ. 15/15 (3 EC)

 $\sqrt{\frac{1}{4}}$ $\sqrt{\frac{3}{4}}$ $\sqrt{\frac{3}{4}}$

Induport: For each second, the cat's speed drapped by 0.46 m/sec.

(b) $PC = 100 \cdot \frac{0.3 - 2.6}{2.6} \% = \frac{-2.3}{2.6} \cdot 100\%$ = -88.5%

Interpret: The cat's apred drapped by 88.5%.

@ * Lots of possibilities.

Same: - Both are regative, indicating a decrease in speed.

Different: * ARC has units, but PC is unitless.

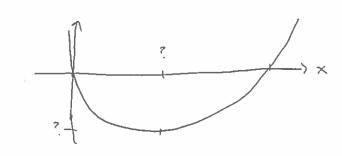
+1 * ARC gress into one unit increments,

while PC de only fells you about the todal
change.

they write

ove Similarity and one difference.)





$$\frac{x_{vet}}{z} = \frac{-b}{z_{e}} = \frac{-(-x_{e})}{x_{e}(y_{so})} = \frac{1}{y_{so}} = \frac{1$$

Middle is 50 ft. (or, whole cond is 100 ft).

Then
$$h_{ret} = h(50) = \frac{1}{50}(50^2) - 2(50)$$

$$= 50 - 100$$

(The minus sign & says the ranal gues)
below ground level.

$$\frac{1}{50} \times^{7} - 2 \times = 0$$

(100 ft) & to the

(2) Note middle is

Disc =
$$b^2 - 4ac = (-9)^2 - 4(9)(7)$$

= $81 - 112 = (-31 < 0)$

$$Disc = (-9)^{2} - 4(4)(-7)$$

$$= 81 + 112 = \boxed{193 > 6}$$

So, there are two real solutions to Q(x)=0. 42

(EXTRA What's the difference between these greadouties?

The sign on 7 77

parabola downwed,

across the x-exis. So,

we get void al