Solve (find the solutions or zeros) the following quadratic equations by FACTORING (if possible).

 $0.2x^{2} - 2.2x + 5.6 = 0 Divide GCF$ $0.2(x^{2} - 11x + 28) = 0 coellisteet$ 0.2(x-7)(x-4) = 0 terms.

x-7=0 x-4=0 x=7

 $0.2x^2 - 2.2x + 5.6 = 0$ Multiply First $2x^2 - 22x + 5.6 = 0$

 $2(x^{-1})(x^{-4}) = 0$

x=7 (x=4)

 $0 = \frac{1}{2}x^2 + \frac{3}{2}x + 8$

Devoninch by LCM

to 16 à bados to 3 no x-intercepts

 $9x^2 - 0.25 = 0$ 3x + .5)(3x - .5) = 0

3x + .5 = 0 $3x + .5 = -\frac{1}{2} \times \frac{1}{3}$

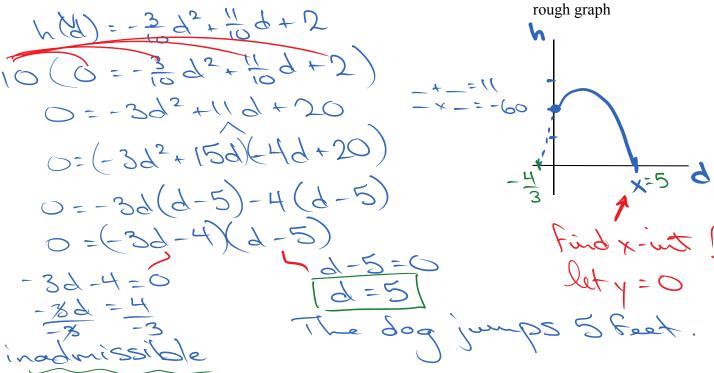
 $(9x^2 - .25 = 0)$

 $(6) \frac{9}{16}x^{2}-4=0$ (3x-8)(3x+8)= 3x-8=0 3x=3 x=4 x=4 3

Some

Word Problems

The path of a dog jumping off a dock can be determined by the equation: $h(d) = -\frac{3}{10}d^2 + \frac{11}{10}d + 2$ Where h is the height above the surface of the water and d is the horizontal distance the dog jumps, both in feet. Determine the horizontal distance of the jump.



The length of an outdoor lacrosse field is 10 m less than twice the width.

The area of the field is 6600 m².

Determine the dimensions of an outdoor lacrosse field (by factoring).

of factors are field (by factoring).

$$A = 1 \omega$$

$$5600 = 1 \omega^{2} - 10 \omega$$

$$6600 = 2 \omega^{2} - 10 \omega - 6600$$

$$0 = 2 (\omega^{2} - 5\omega - 3300)$$

$$0 = 2 (\omega - 60)(\omega + 55)$$

$$\omega - 60 = 0$$

$$\omega -$$

Practice: p230 #8be, 9cd, 11, 13