EX 10 x 25 A= 496 H2 X = ?(2x+25)(2x+10) = 496 4x2+20x+50x+250=496 4x2+70x+250=496 $(\div 2)$ 2x2+35x+125-248=0 246 125 2x2+35x-123 X = -35 + (352 4 (2) (123) -22 X=3 ((Minemize) Maximizing Area Vertex x = -b , J = f(-b) Summe tim stall Sides EX P= 120 ft = 2 P+2W (+2) $A = l.\omega$ $60 = l + \omega$ $A = l.\omega$ 60 = 30 = 30= (60-w) w $=60\omega-\omega^2$ = -w2+60W LW = - 60 = 30 | dimension: 30 x 30 A = (80) (30) = 900 ft 2 Max. Perfect rectangle: 2l=60 = 120 is 5 quare form rectangle 120=4P

$$0 = -16t^{2} + 100t$$

$$= -4t(4t - 25)$$

$$t = 0,$$

$$t = 25$$

$$t = \frac{25}{4} \sec$$

$$0 = -16t^{2} + 100t$$

$$t = -\frac{1}{2a} = -\frac{100}{-32}$$

$$= \frac{25}{8} \sec$$

$$0 = -16\left(\frac{25}{8}\right)^{2} + 100\left(\frac{25}{8}\right)$$

$$= -\frac{625}{4} + \frac{625}{2}$$

$$= 625 + 4$$

$$= \frac{625}{4} + 4$$

$$d = \sqrt{36 + 4}$$

$$= \sqrt{40} \quad \text{miles } 40 = 4 (10)$$

$$= 2\sqrt{10} \quad \text{with}$$

$$P - 132 = 2l + 3\omega$$

 $2l = 132 - 3\omega$

A - 576

$$= (66 - \frac{3}{2}\omega)\omega$$

$$=66\omega - \frac{3}{4}\omega^2$$

$$w = -\frac{66}{2(-\frac{3}{2})} = 22$$

'L: (1-7)t=de

uh - d= 68

$$16 \int (1-7)^2 + \pi^2 \int = 65^2$$

U

C C

17 17 68.66

114

450

$$A = 1.0$$

$$= (20 + 2x)(10 + 2x) = 600$$

$$200 + 40x + 20x + 4x^{2} - 600 = 0$$

$$4x^{2} + 60x - 2400 = 0$$

$$x^{2} + 15x - 100 = 0$$

$$x = -15 + \sqrt{225 + 400}$$

$$[\omega = -\frac{2d\theta}{-6} = 40]$$

$$l = 2\alpha\theta - 3(\alpha\theta)$$

$$= 120 \int \omega$$

1.5 x n solutions

 $\frac{\mathcal{E}X}{4x^4 - 12x^2} \qquad 4 \frac{12x^2}{4x^2 - 12x^2} \qquad 4 \frac{12x^2}{4x^2 - 2} \qquad 4 \frac{12x^2}{4x^$

4 solns divide by x^{2} $\begin{array}{c}
x = 0, 0 \\
4 x^{2} = 12 \\
x^{2} = 1
\end{array}$

 $2x^{3} + 3x^{2} = 8x + 12$ $2x^{3} + 3x^{2} - 8x - 12 = 0$ $x^{2}(2x + 3) - 4(2x + 3) = 0$ $(2x + 3)(x^{2} - 4) = 0$ $2x + 3 = 0 \qquad x^{2} - 4 = 0$ $x = -\frac{3}{2} \qquad x = \pm \sqrt{2}$

 $X = -\frac{3}{2}, \pm \sqrt{2}$

By Grouping 3 solns

$$a(x^{2} + bx + c = 0) \Rightarrow \text{ fundatue Formla}$$

$$a(t)^{2} + b(t) + c = 0 \qquad \text{or mine formula}$$

$$a(u)^{2} + b(u) + c = 0$$

$$x^{2} \qquad x^{3}$$

$$a(x^{9})^{2} + b(x^{9}) + c = 0$$

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$$a(x^{9})^{2} + b(x^{9}) + c = 0 \Rightarrow x^{2} = -\frac{6t}{2} \sqrt{\frac{6^{2}}{2}} - 4ac$$

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$$(x^{2}$$