ex.1 $\square$

$$
P=40 \mathrm{ft}
$$

$$
[0,20]
$$

$$
A(0)=0
$$

$$
A(10)=100 \mathrm{mcx}
$$

$$
A(l)=l(2 v-l)
$$

$$
A(l)=201-1^{2}
$$

$$
A(20\rangle=0
$$

$$
\begin{aligned}
& \text { (ex,2 } V=l_{\text {wh }} \quad[0,9] \\
& V(x)=x(18-2 x)^{2} \\
& V^{\prime}(x)=(18-2 x)^{2}+x(2)(18-2 x)(-2){ }^{18} \\
& =324-72 x+4 x^{2}-72 x+8 x^{2} \\
& V(0)=0=12 x^{2} 144 x+324 \\
& V(9)=0 \quad=12\left(x^{2}-12 x+27\right) \\
& 3 \text { in } \times 12 \min \times 2 \text { in } \\
& V(3)=432 \text { in } 312(x-3)(x-9) \rightarrow \underset{x=3,9}{\text { crit fis }}
\end{aligned}
$$

$$
\begin{aligned}
& A=l n \\
& P=2 l+2 \mathrm{w} \\
& 40=21+2 w \\
& 40-21=2 w \\
& 20-l=w \\
& 20-2 l=0 \\
& \begin{array}{l}
20=2 l \\
10=l
\end{array}
\end{aligned}
$$



$$
\begin{aligned}
& p .317 \\
& 3,5,15
\end{aligned}
$$

