Warm Up
Identify the vertex $\downarrow$

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

$$
(-4,0)=v
$$

Graph and Identity ?he vertex and axis of sym
2) $-4+8+3=7$







$$
y=-x^{2}+10 x-25 \quad y=-x^{2}+10 x-17
$$




Problem 13

$$
n^{2}-5 n-14=0
$$

$$
n^{2}=5 n+14 \quad(n-7)(n+2)=0
$$

$$
-n^{2}+5 n+14=0
$$

$$
\begin{aligned}
& -n+7=0 \\
& -7-7 \\
& \frac{-n}{-1}=-7 \\
& \begin{array}{ll|l}
n=7 & n+2 \pi=0 & \begin{array}{l}
n=-2 \\
n=7
\end{array} \\
\hline
\end{array}
\end{aligned}
$$

