

\* Factor  $\boxed{p^2 + 81}$

$$p^2 + \cancel{0}p + 81$$

$$(9 \times 9) = 81$$

$$\cancel{(p+9)(p+9)}$$

No

$$\rightarrow p^2 + 18p + 81$$

$$\underline{9} + \underline{-9} = 0$$

$$\cancel{(p-9)(p-9)}$$
$$\rightarrow p^2 - 18p + 81$$

$$\begin{array}{r} 81 \\ \hline 1 \cdot 81 \\ \hline 3 \cdot 27 \\ \hline 9 \cdot 9 \end{array}$$

$$\cancel{(p-9)(p+9)}$$
$$\rightarrow p^2 - 81$$

Prime