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Factor

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

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

$$(9)(-9) = -81$$

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

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

No
 $\hookrightarrow p^2 + 18p + 81$

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

$$\hookrightarrow p^2 - 18p + 81$$

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

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

$$\begin{array}{r} 9 \cdot 9 \\ \hline \end{array}$$

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

$$\hookrightarrow p^2 - 81$$

Prime