

Find A and B so that $f(x, y) = x^2 + Ay + y^2 + B$ has a local minimum at the point $(0, 8)$, with z -coordinate 45.

$$A = \boxed{}$$

$$B = \boxed{}$$

Find A and B so that $f(x, y) = x^2 + Ay + y^2 + B$ has a local minimum at the point $(0, 8)$, with z -coordinate 45.

$$A = \boxed{-16}$$

$$B = \boxed{109}$$