$\forall x \exists y \forall z \exists u A(x, y, z, u)$

5. The result of Skolemization of the formula

is the formula
$$\forall x \forall z A(x, f(x), z, g(x, z)),$$

 $\forall x \forall z A(x, f(x), z, g(x, z)),$ where f is a new unary Skolem function and g is a new binary Skolem function.