# 1 Questão 1.

1.

A equação do função de multiplicar:
$multi(x, 0) = 0$
$multi(x, y + 1) = multi(x, y) + x$
Dado:
$multi(x, y) = x * y = \overbrace{x + \ldots + x}^{y}$ é
Logo:
$multi(x, 0) = f(x) = z(x)$
$multi(x, y + 1) = g(x, y, multi(x, y)) = soma(u_3^3(x_1, x_2, x_3), u_1^3(x_1, x_2, x_3))$
Nesse caso:
$g(x1, x2, x3) = soma(u_3^3(x_1, x_2, x_3), u_1^3(x_1, x_2, x_3))$

$$\begin{aligned}
multi(3, 2) &= multi(u_3^3(3, 1, multi(3, 1))), u_1^3(3, 1, Exp(3, 1)) \\
&= soma(multi(3, 1), 3) \\
&= soma((soma(u_3^3)(3, 0, multi(3, 0))), u_1^3(3, 0, multi(3, 0)), 3) \\
&= soma(soma(multi(3, 0), 3)3) \\
&= soma(soma(1, 3), 3) \\
&= soma(3, 3) \\
&= 6
\end{aligned}$$