

$$f(x+y) = f(x) \cdot f(y)$$

$$f(2) = 5$$

$$f(5) = ??$$

*Solução:*

$$f(4) = f(2+2) = f(2) \cdot f(2) = 5 \cdot 5 = 25$$

$$f(2) = f(1+1) = f(1) \cdot f(1) \rightarrow 5 = f(1)^2 \rightarrow f(1) = \sqrt{5}$$

$$f(5) = f(4+1) = f(4) \cdot f(1) = 25 \cdot \sqrt{5} = \mathbf{25\sqrt{5}}$$