

simple interest

$$F(t) := 1000 + 1000 \cdot 0.05 \cdot t$$

compound interest

$$FC(t) := 1000 \cdot \left(1 + \frac{0.05}{1}\right)^{1 \cdot t}$$

$$F(1) = 1050$$

$$F(2) = 1100$$

$$F(3) = 1150$$

$$FC(1) = 1050$$

$$FC(2) = 1102.5$$

$$FC(3) = 1157.625$$