Déterminer la fonction affine tel que:

$f(3) = 1$ $\quad$ $f(5) = 9$

1. Fonction affine : $f(x) = ax + b$

2. $f(3) = a \times 3 + b = 3a + b = 1$

$f(5) = a \times 5 + b = 5a + b = 9$

3. $3a + b = 1 \rightsquigarrow b = -3a + 1$

* $5a + b = 9$

* $5a + (-3a + 1) = 9$

$5a - 3a + 1 = 9$

$2a = 9 - 1$

$2a = 8 \Rightarrow a = 4$

$b = -3 \times 4 + 1 = -12 + 1 = -11$

Donc $f(x) = 4x - 11$

$f(3) = 4 \times 3 - 11 = 1 \Rightarrow$ ok $\quad$ $f(5) = 4 \times 5 - 11 = 9 \Rightarrow$ ok