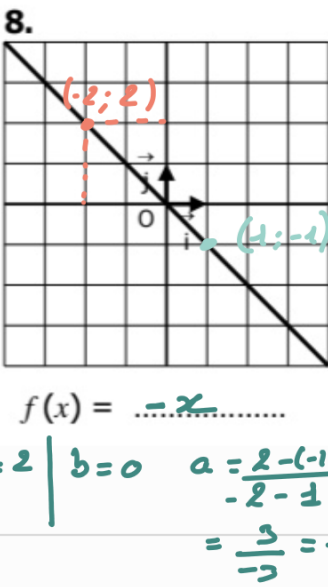
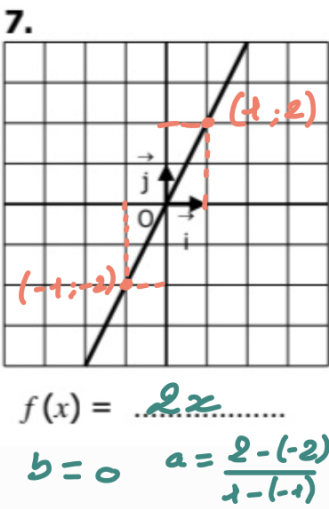
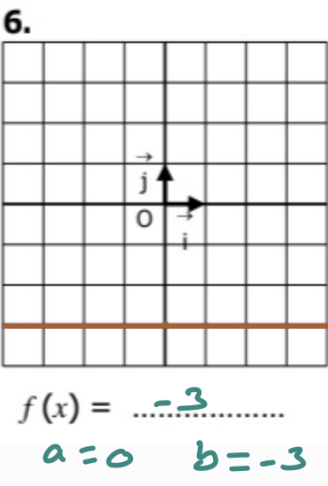
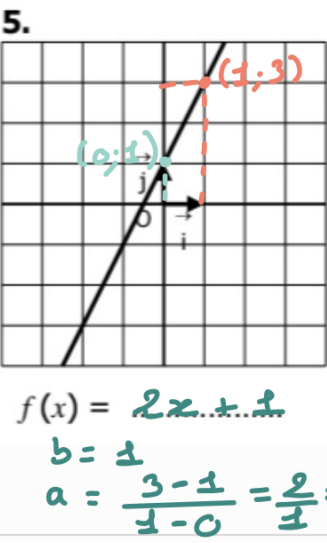
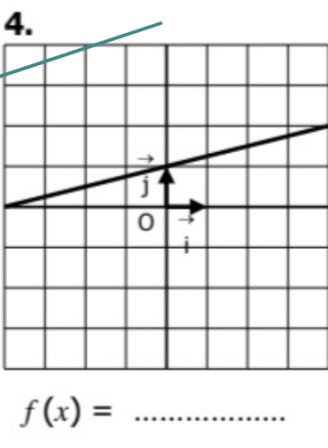
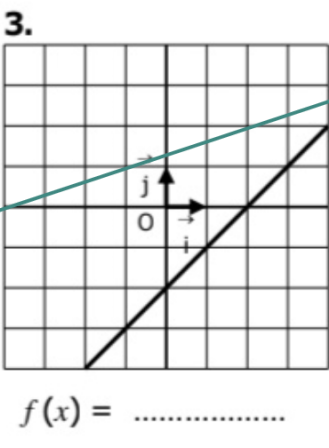
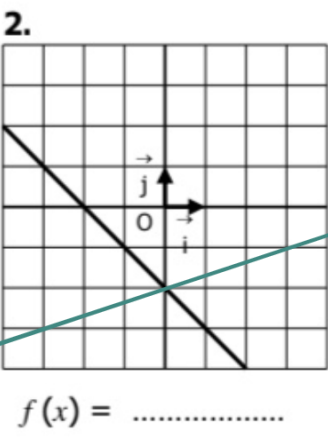
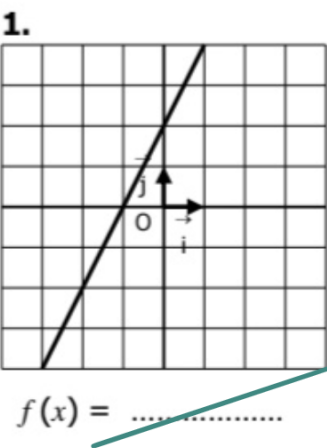


Fonction affine

Déterminer graphiquement l'expression de la fonction affine dont on a tracé la courbe :



exercice :

Déterminer l'expression de la fonction affine f .

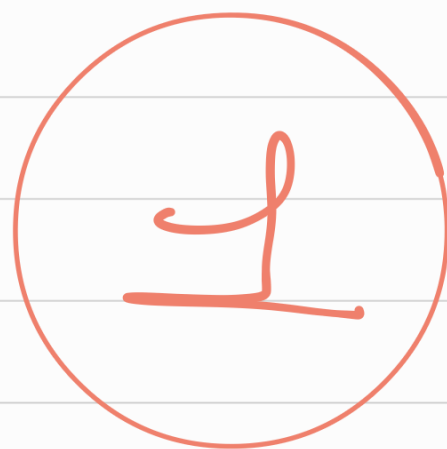
$$f(-1) = 6 \text{ et } f(3) = -2$$

$$a = \frac{f(-1) - f(3)}{-1 - 3}$$

$$= \frac{6 - (-2)}{-1 - 3}$$

$$= \frac{8}{-4}$$

$$= -2$$



$$f(x) = -2x + b$$

2

$$\bullet f(3) = -2$$

$$\text{et } f(3) = -2 \times 3 + b$$

$$= -6 + b$$

donc

$$-6 + b = -2$$

$$b = -2 + 6$$

$$b = 4$$

3

Donc

$$f(x) = -2x + 4$$

4

exercice :

Déterminer l'expression de la fonction affine f .

$$f(-4) = 3 \text{ et } f(6) = -2$$

$$\textcircled{1} a = \frac{3 - (-2)}{-4 - 6} = \frac{5}{-10} = -2$$

$$\textcircled{2} f(x) = -2x + b$$

$$\textcircled{3} f(6) = -2$$

$$f(6) = -2 \times 6 + b = -12 + b$$

$$\Rightarrow -12 + b = -2$$

$$d'_{ai} \quad b = -2 + 12$$

$$b = 10$$

donc

$$f(x) = -2x + 10$$

exercice:

1. Déterminer l'expression de la fonction affine f .

$$f(3) = 1 \text{ et } f(5) = 7$$

$$\textcircled{1} a = \frac{1 - 7}{3 - 5} = \frac{-6}{-2} = 3$$

$$f(x) = 3x + b \quad \textcircled{2}$$

$$\textcircled{3} \bullet f(3) = 1$$

$$\bullet f(3) = 3 \times 3 + b = 9 + b$$

$$\Rightarrow 9 + b = 1 \quad b = 1 - 9 \\ = -8$$

Donc :

$$f(x) = 3x - 8$$