

# Dérivation

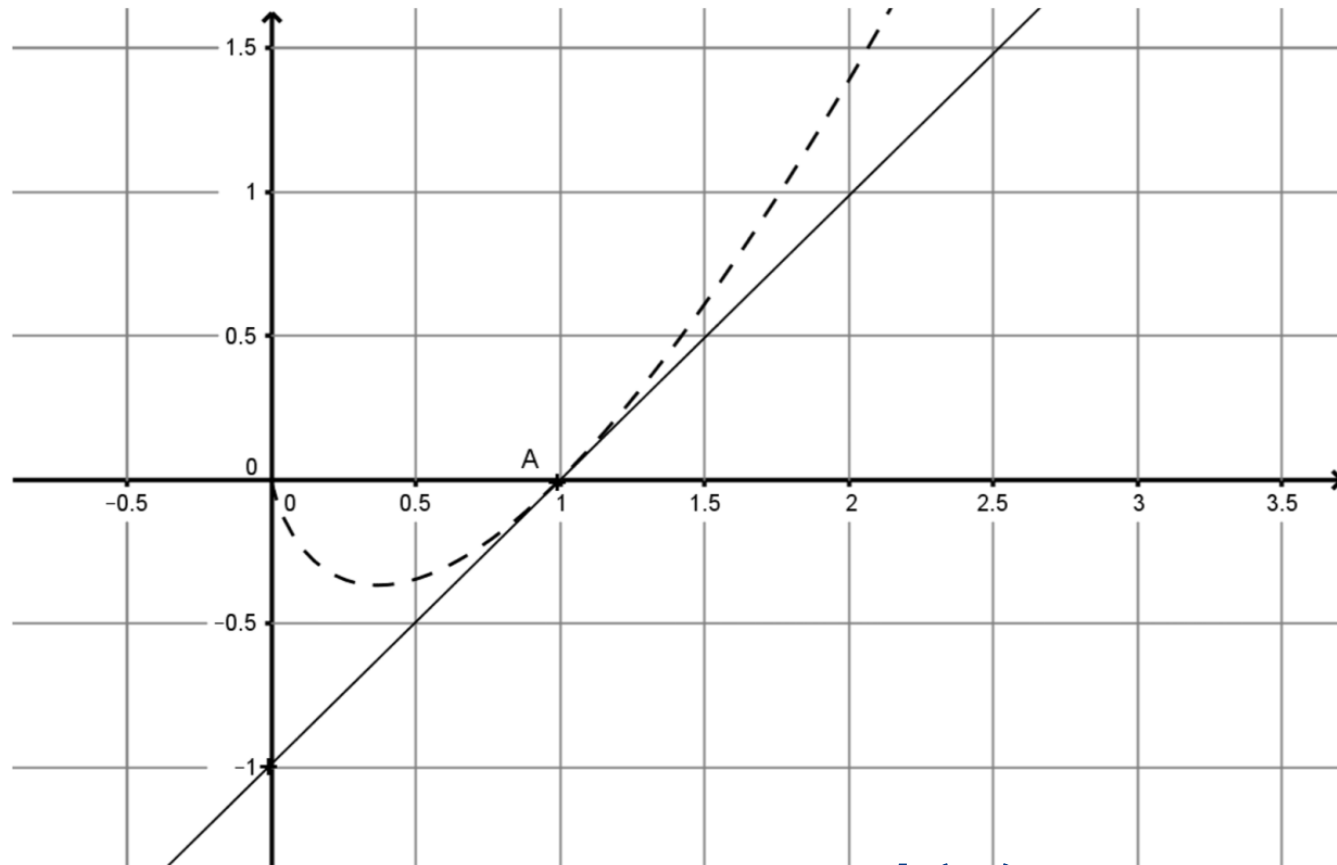
## Série 1

Activités mentales et automatismes en classe de première  
- IREM de Clermont-Ferrand -

**$f$  est une fonction dont la courbe représentative et la tangente en A à cette courbe sont tracées dans un repère.**

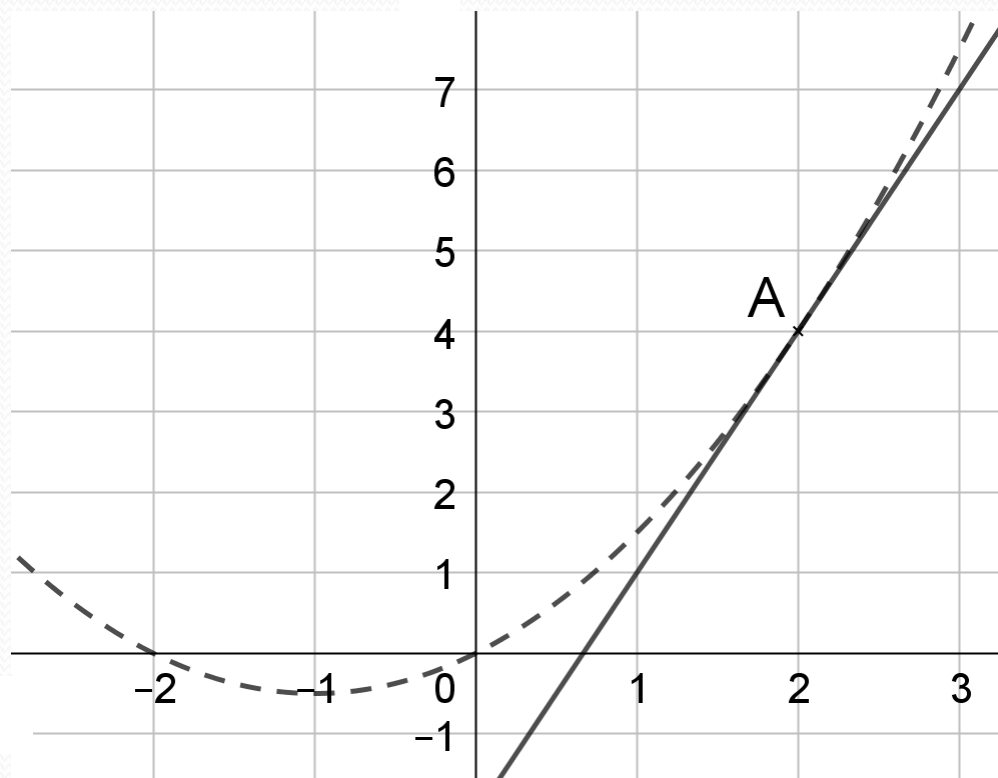
**Déterminer le nombre dérivé demandé.**

# Question 1



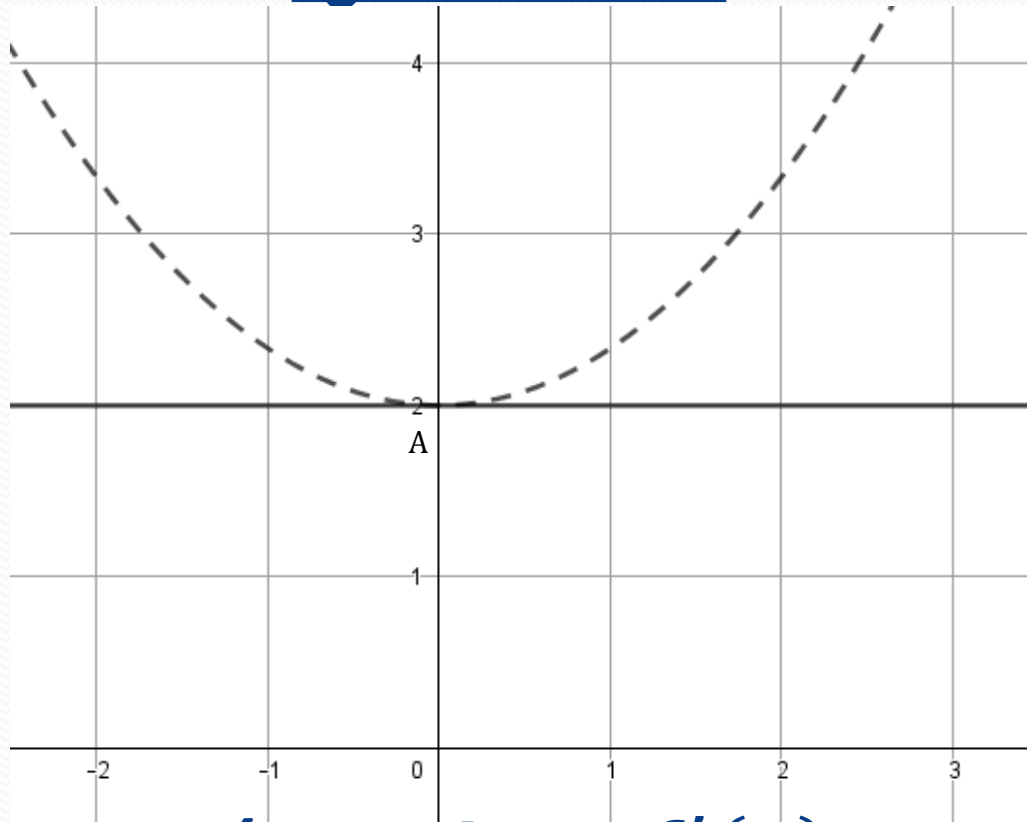
Déterminer  $f'(1)$ .

## Question 2



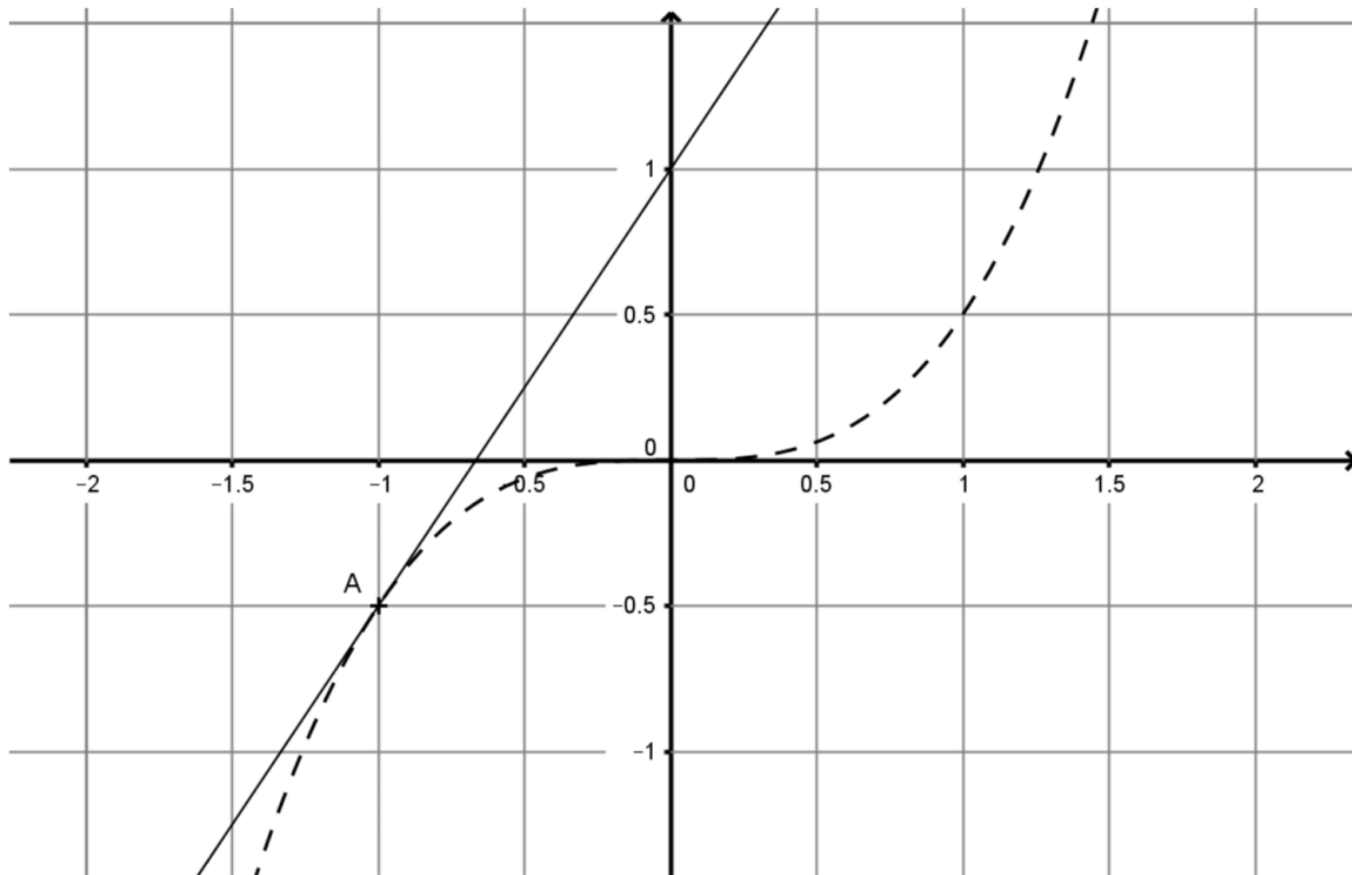
Déterminer  $f'(2)$ .

## Question 3



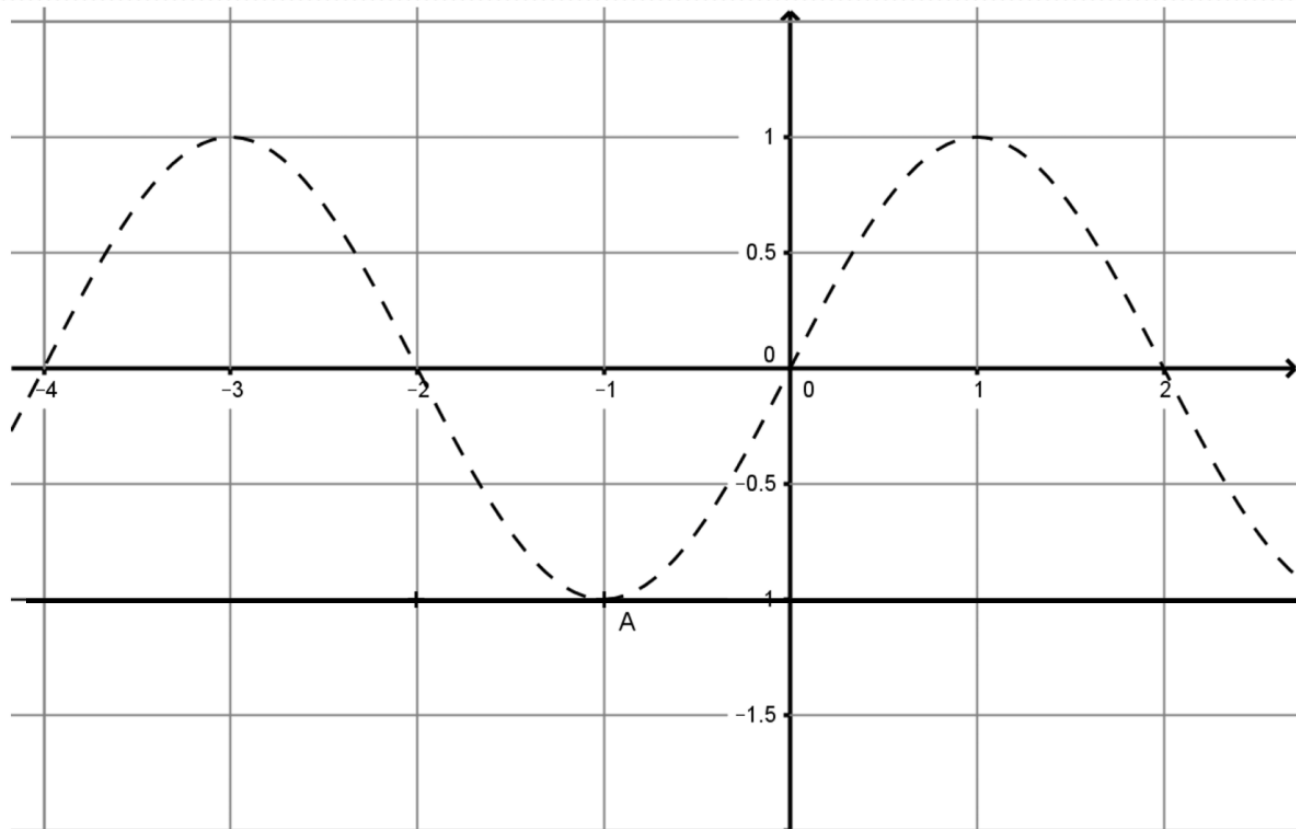
Déterminer  $f'(0)$ .

## Question 4



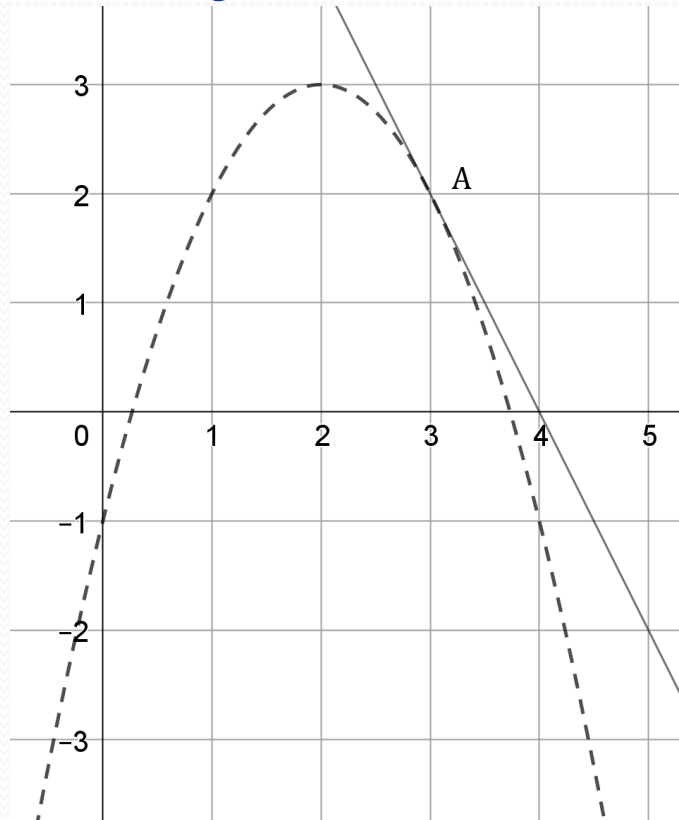
Déterminer  $f'(-1)$ .

## Question 5



Déterminer  $f'(-1)$ .

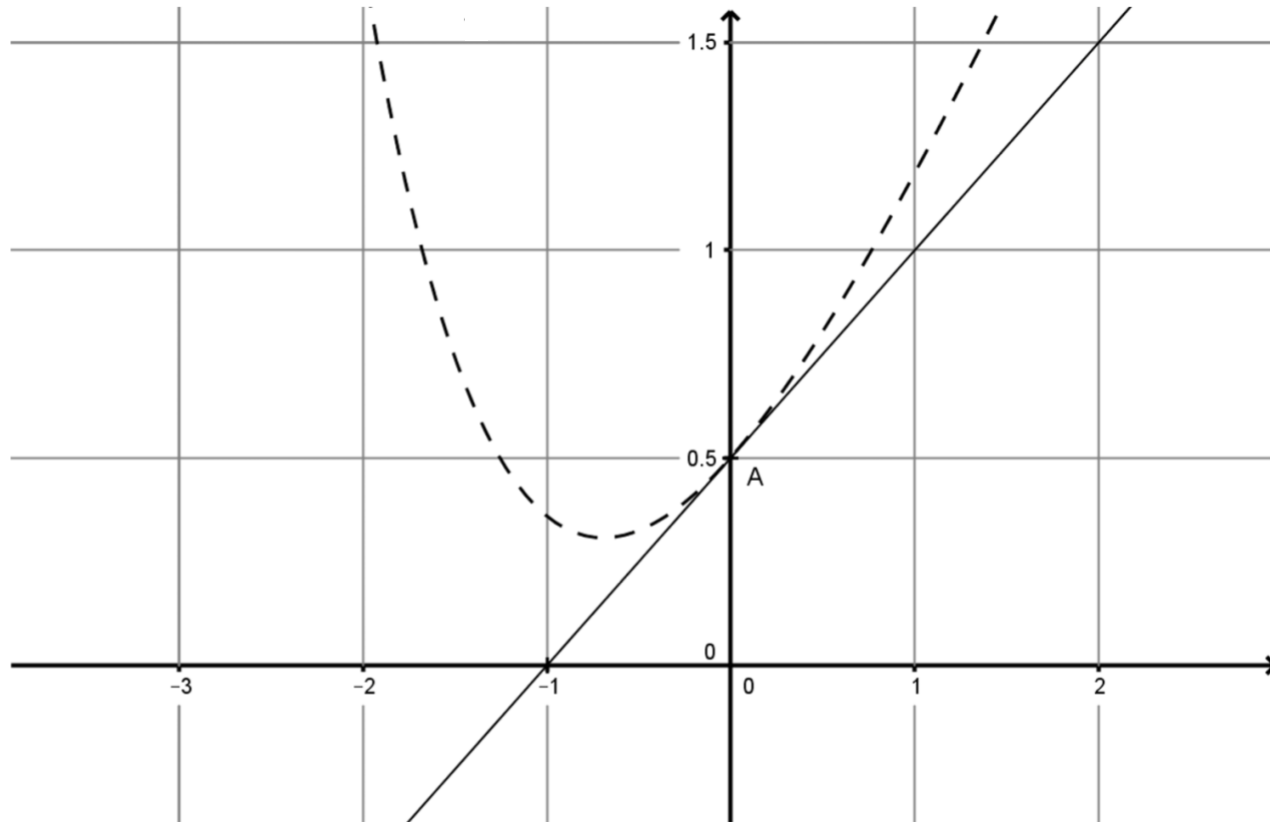
## Question 6



Déterminer  $f'(3)$ .

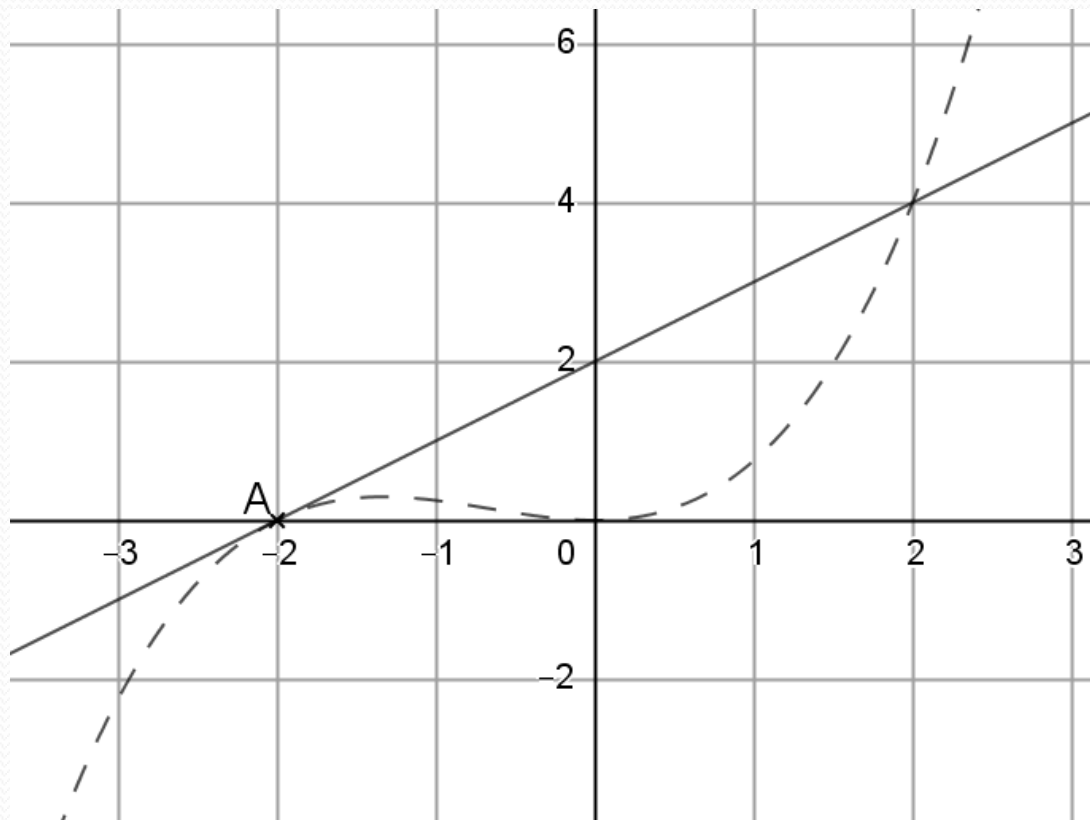


## Question 7



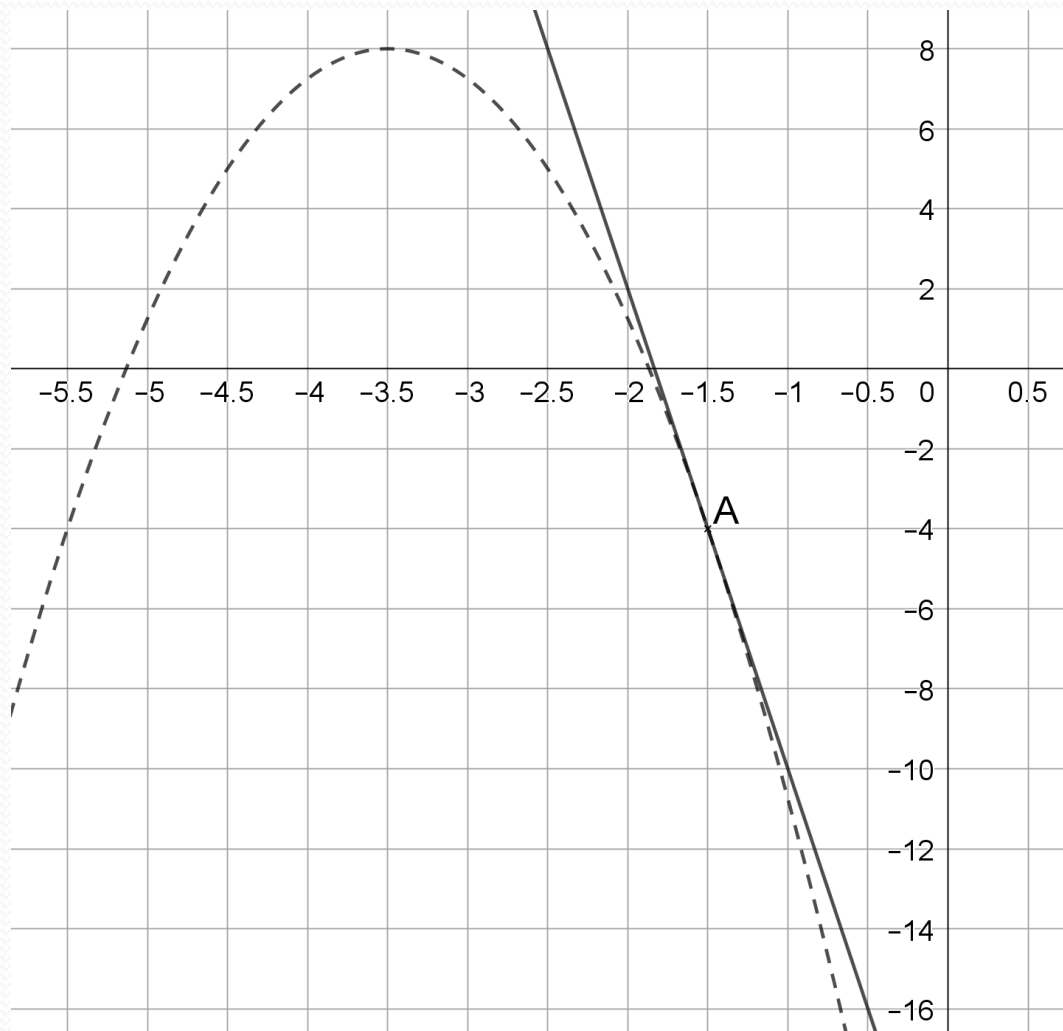
Déterminer  $f'(0)$ .

## Question 8



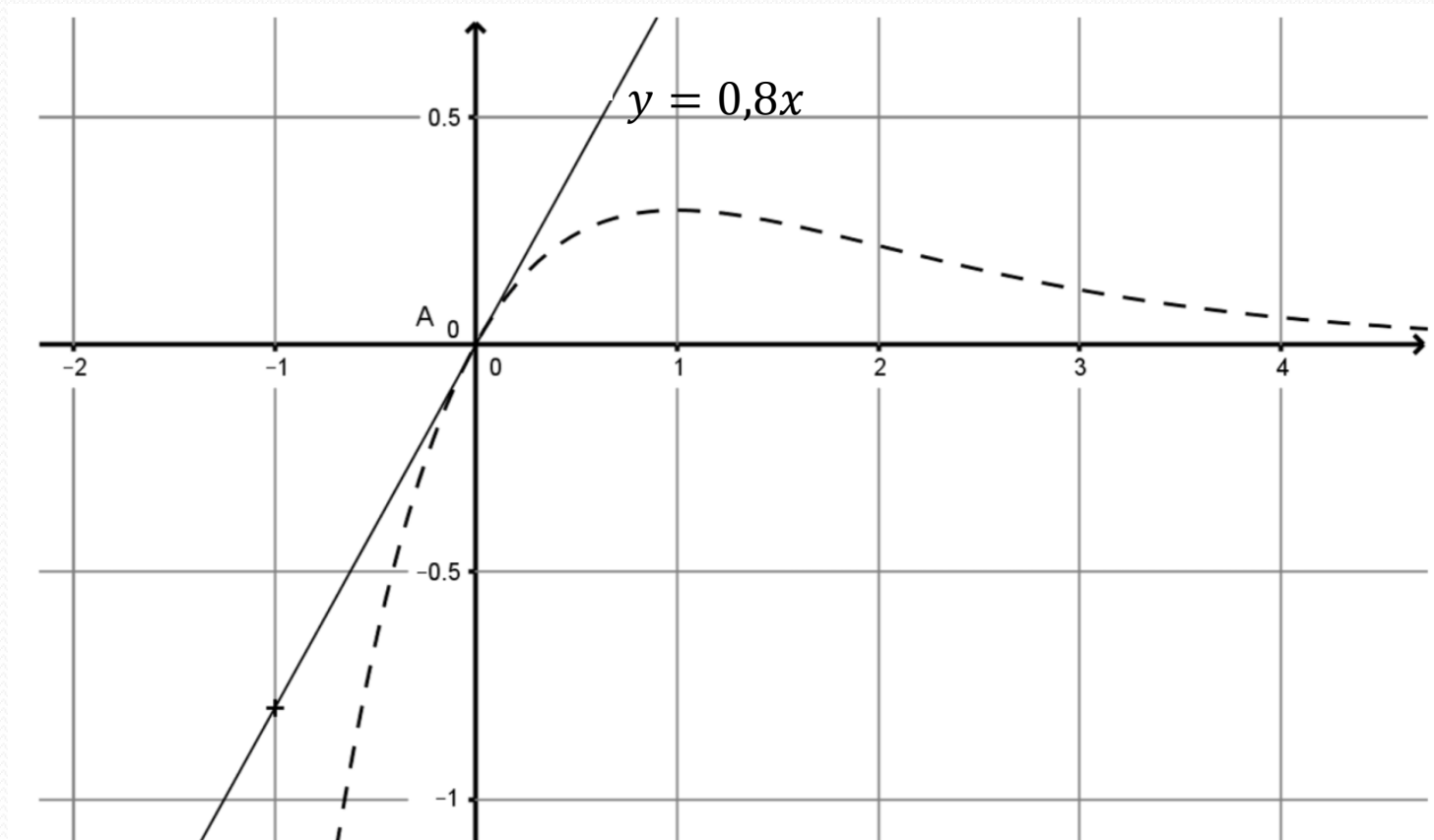
Déterminer  $f'(-2)$ .

## Question 9



Déterminer  
 $f' \left( -\frac{3}{2} \right)$ .

## Question 10



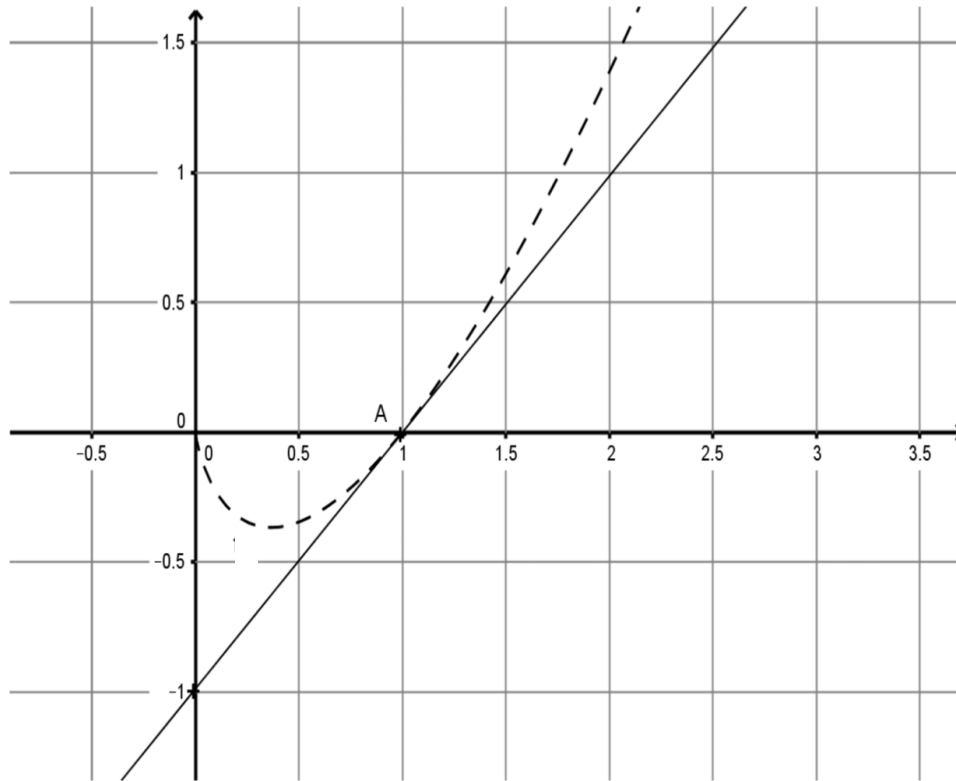
Déterminer  $f'(0)$ .

# Correction

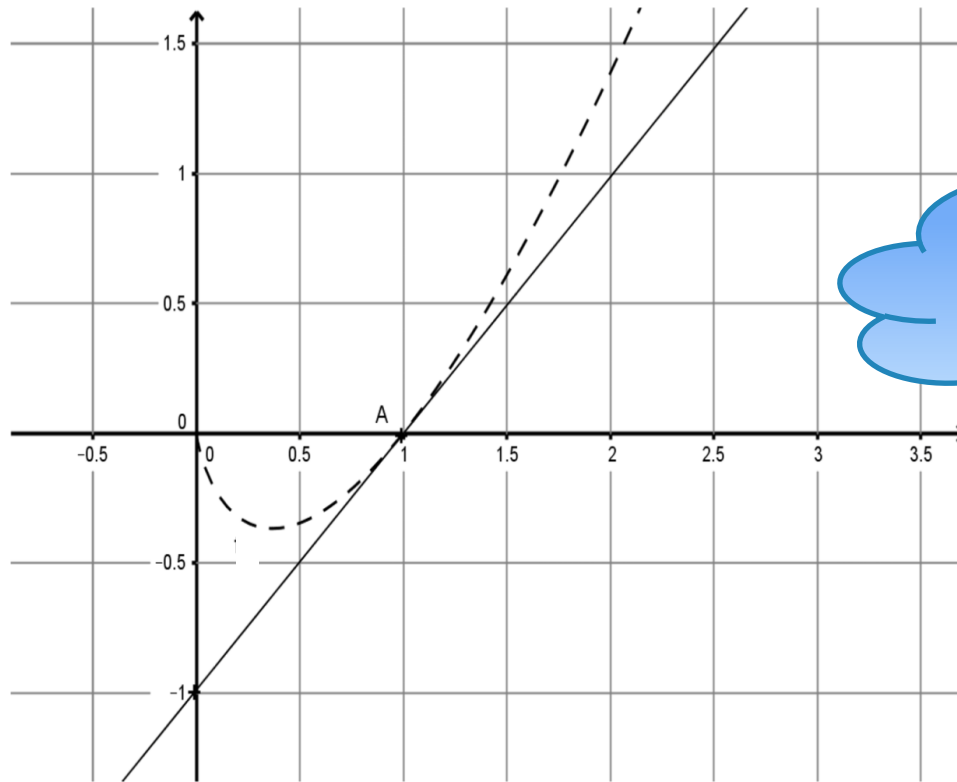
Activités mentales et automatismes en classe de première  
- IREM de Clermont-Ferrand -

# Question 1

Déterminer  $f'(1)$ .



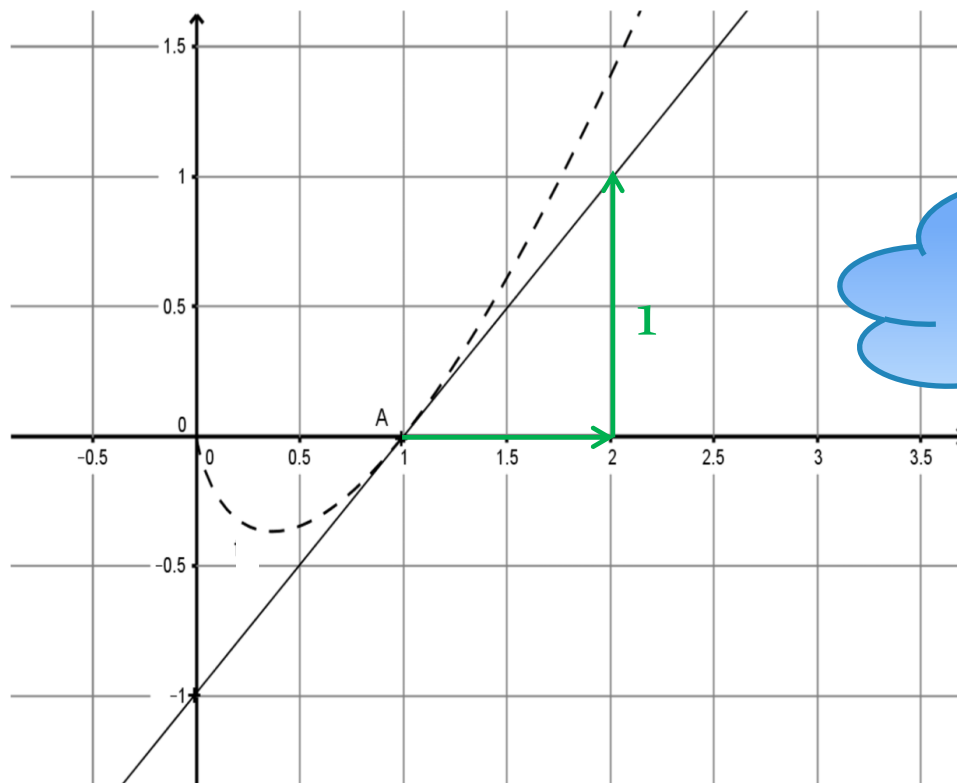
# Question 1



Déterminer  $f'(1)$ .

$f'(1)$  est le  
coefficient directeur  
de la tangente en A

# Question 1

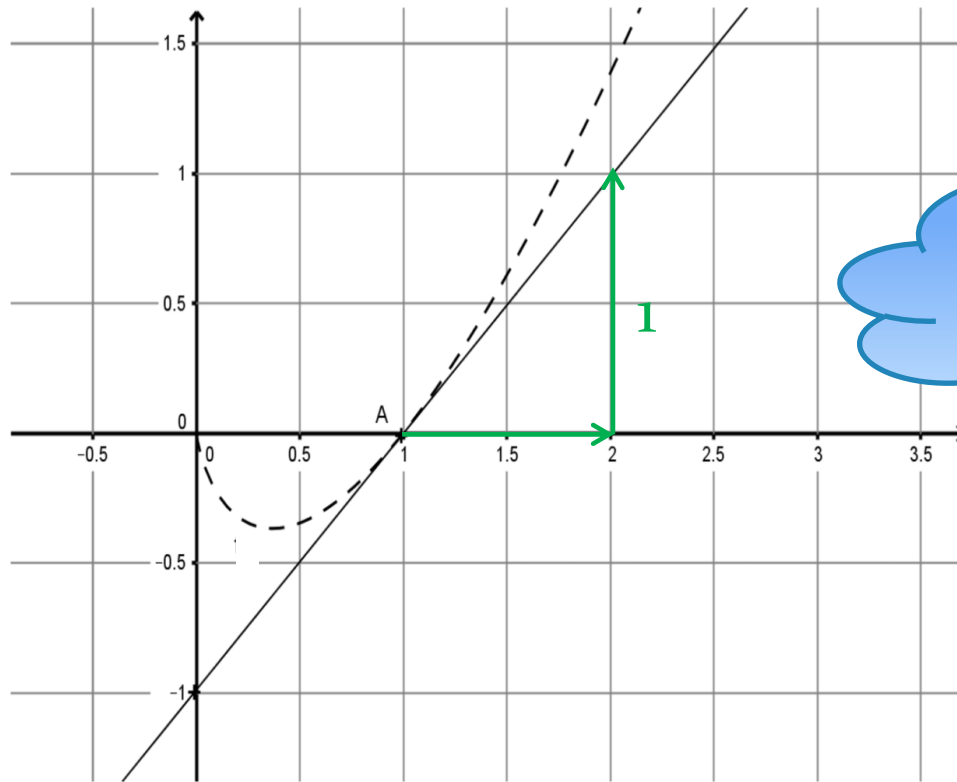


Déterminer  $f'(1)$ .

$f'(1)$  est le  
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# Question 1



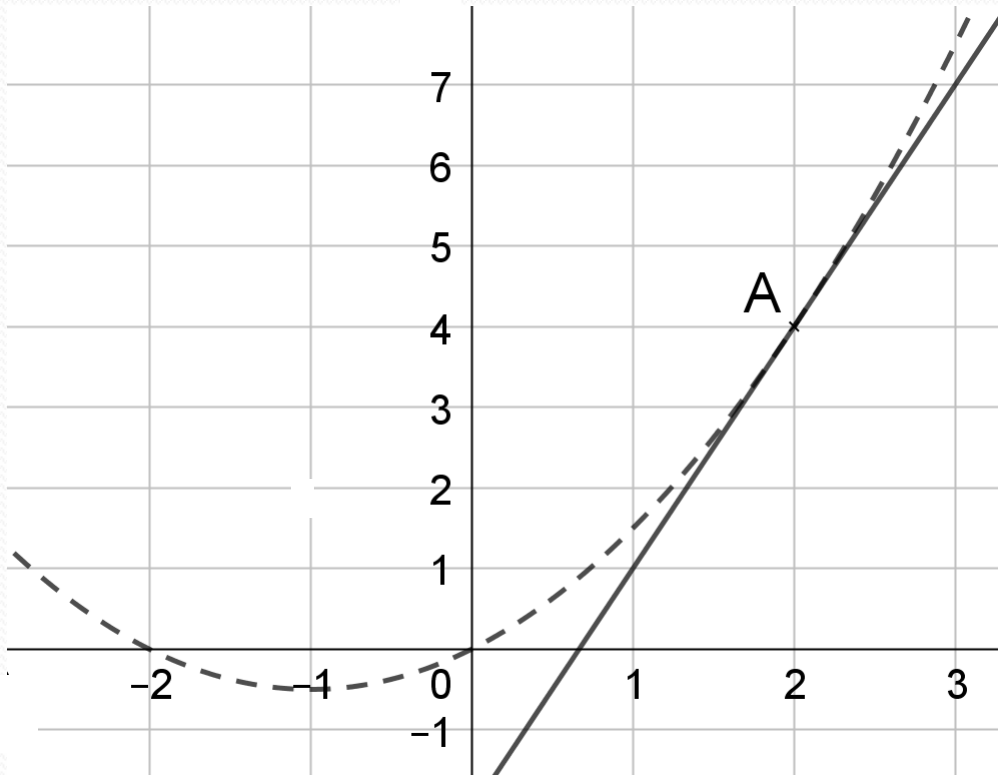
Déterminer  $f'(1)$ .

$f'(1)$  est le  
coefficient directeur  
de la tangente en A

$$f'(1) = 1$$

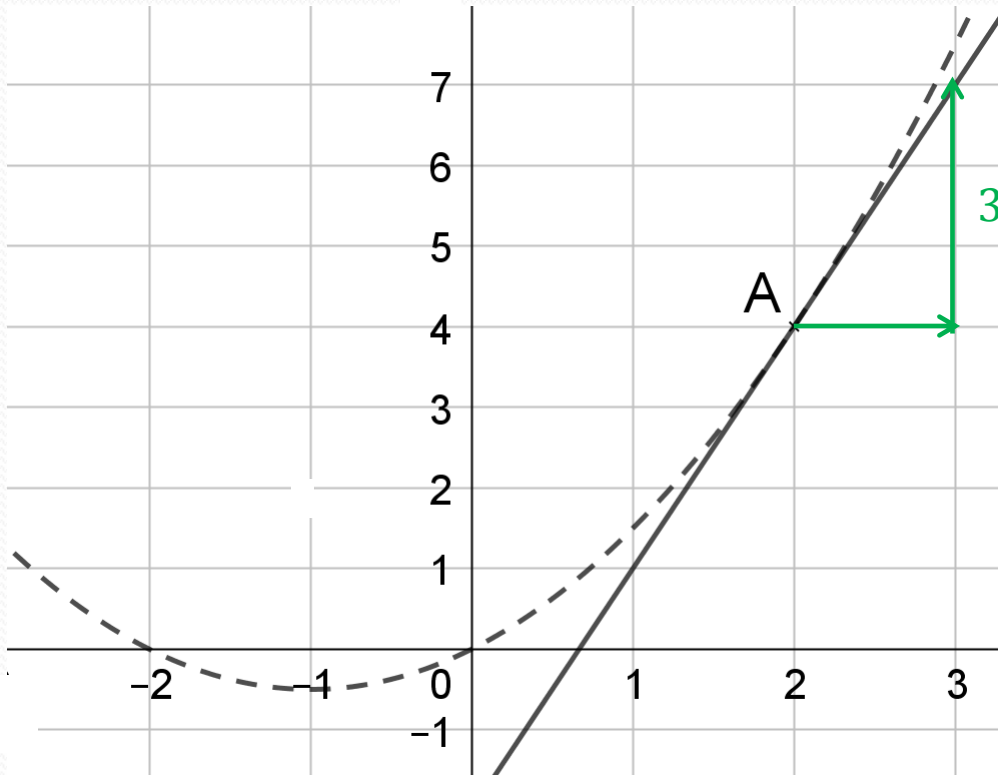
## Question 2

Déterminer  $f'(2)$ .



## Question 2

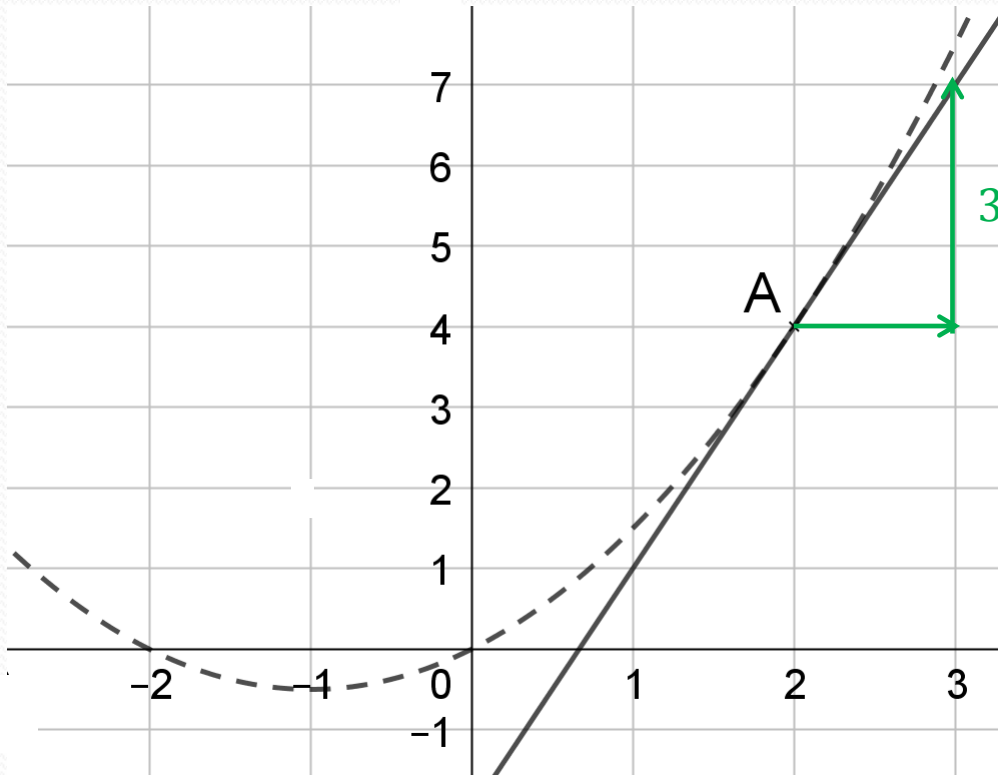
Déterminer  $f'(2)$ .



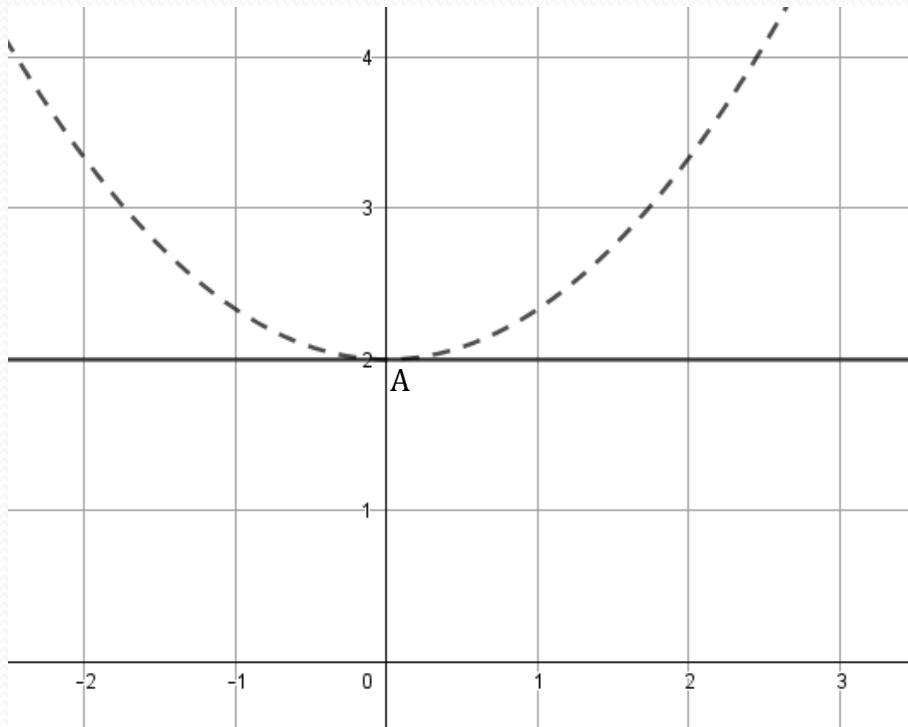
## Question 2

Déterminer  $f'(2)$ .

$$f'(2) = 3$$

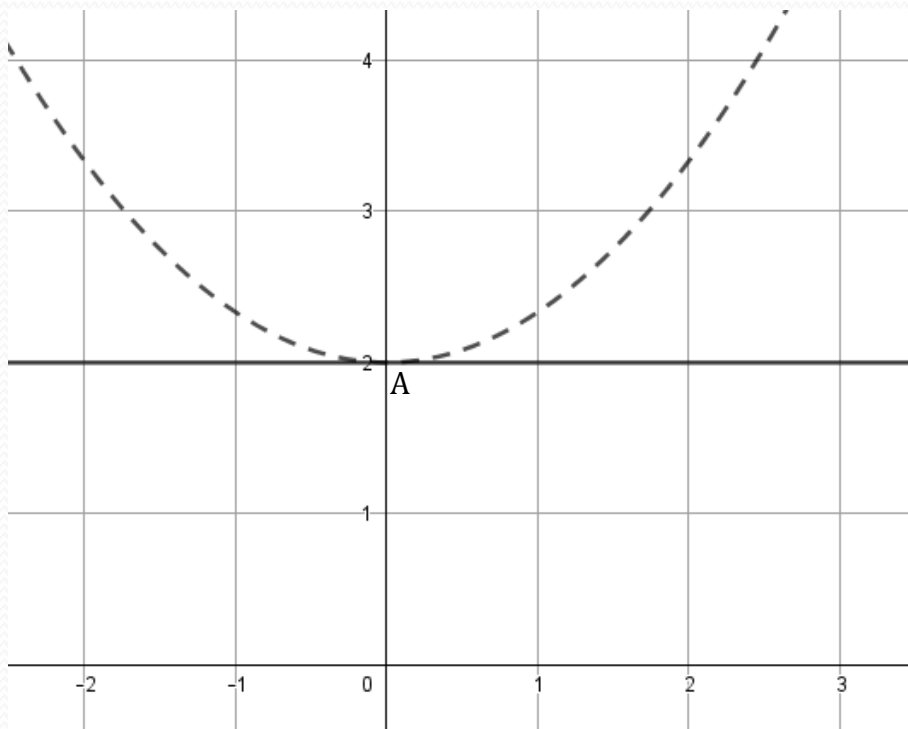


## Question 3



Déterminer  $f'(0)$ .

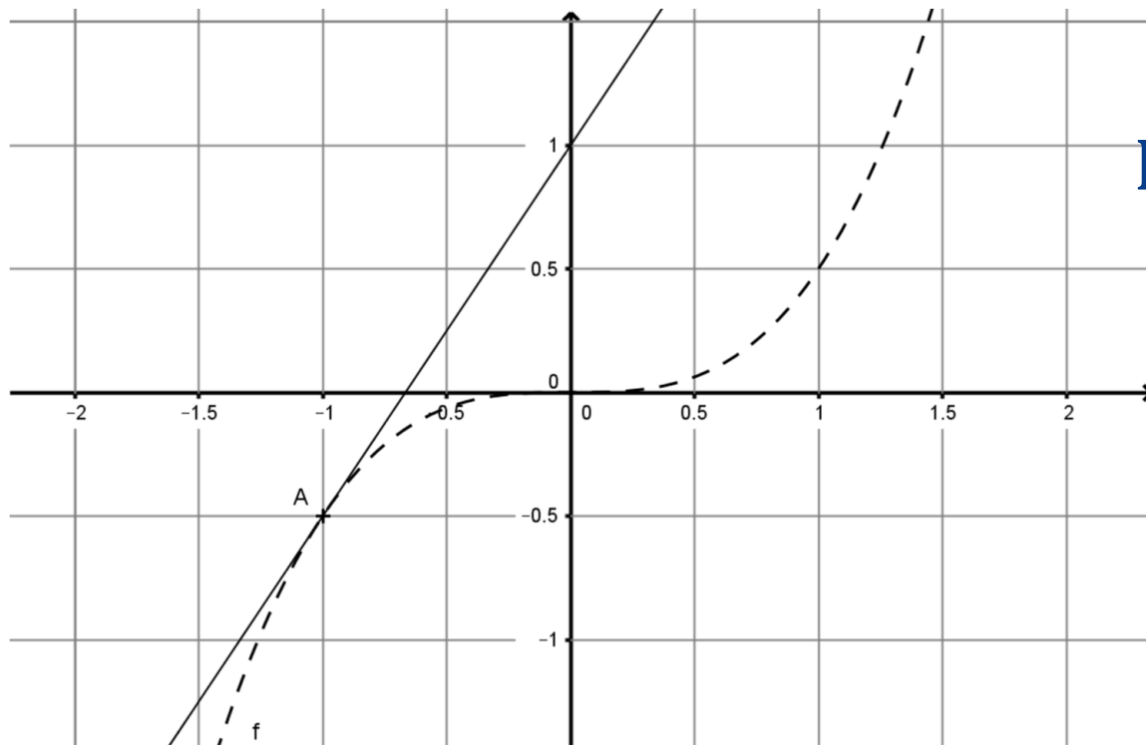
## Question 3



Déterminer  $f'(0)$ .

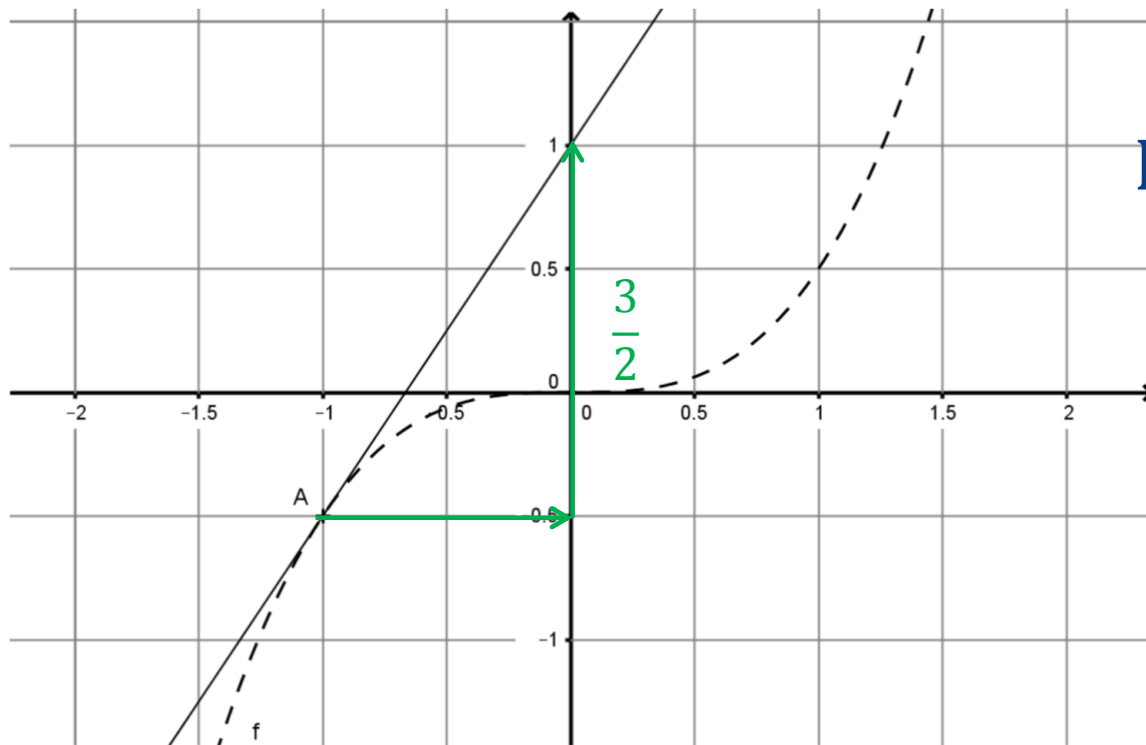
$$f'(0) = 0$$

## Question 4



Déterminer  $f'(-1)$ .

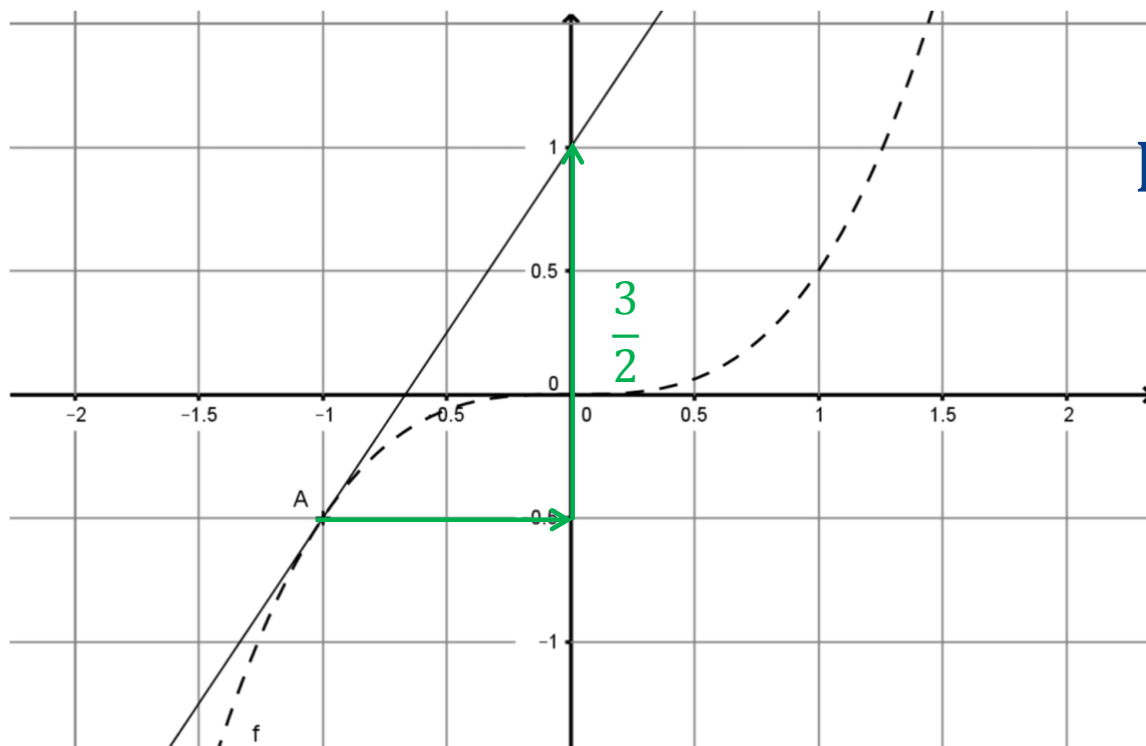
## Question 4



Déterminer  $f'(-1)$ .



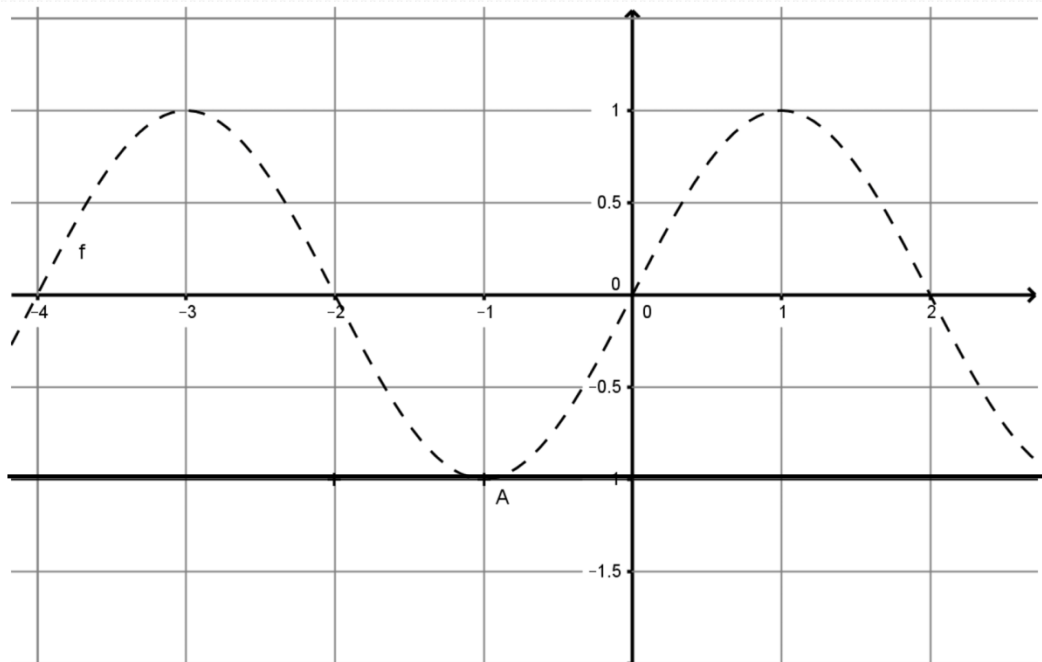
## Question 4



Déterminer  $f'(-1)$ .

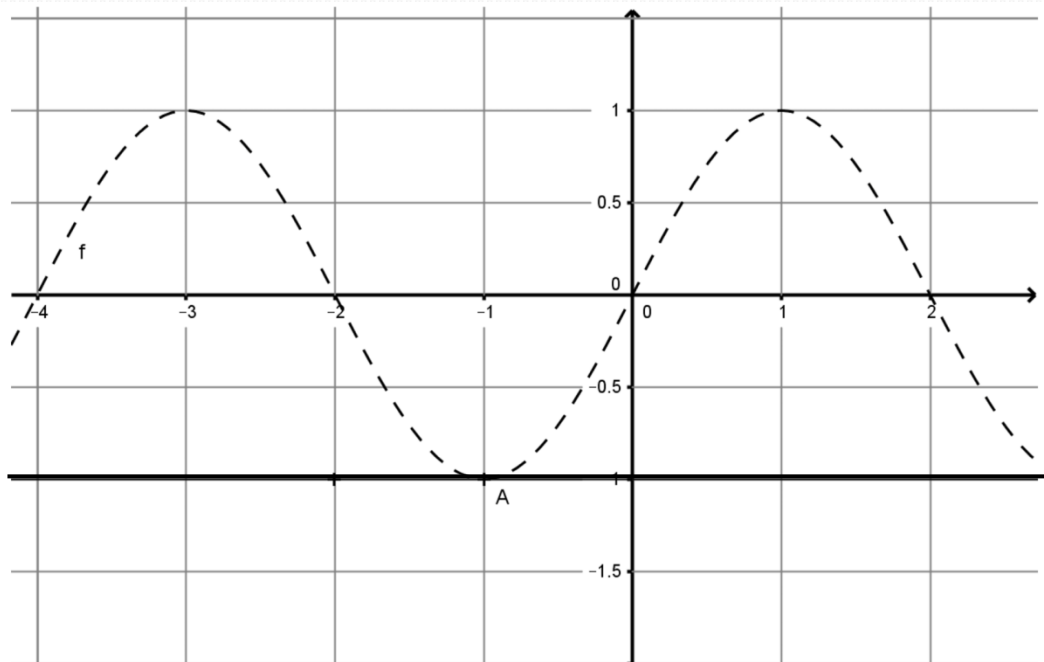
$$f'(-1) = \frac{3}{2}$$

## Question 5



Déterminer  $f'(-1)$ .

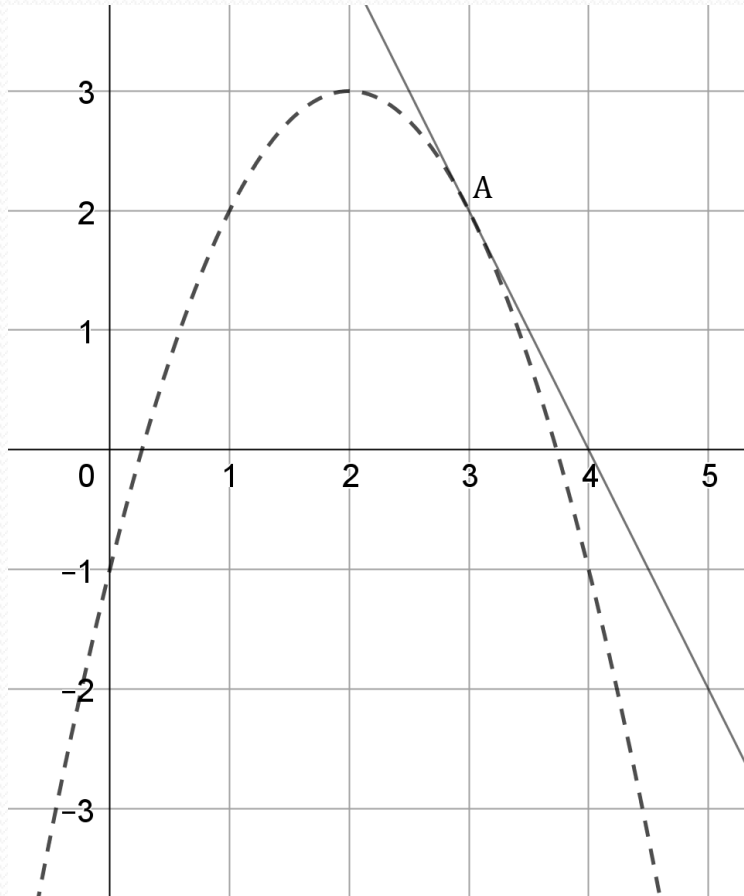
## Question 5



Déterminer  $f'(-1)$ .

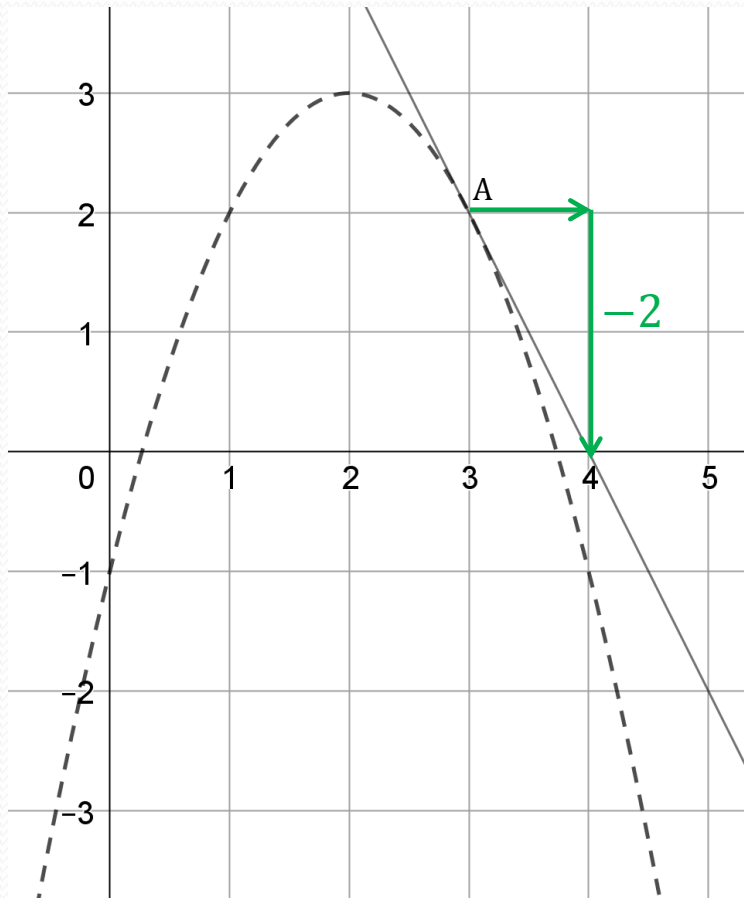
$$f'(-1) = 0$$

## Question 6



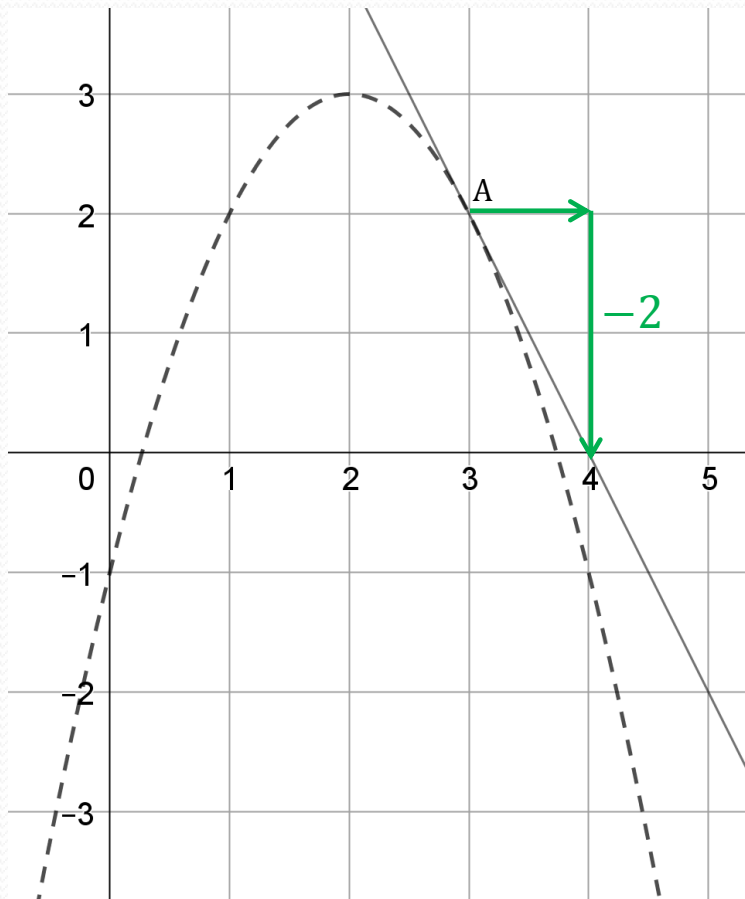
Déterminer  $f'(3)$ .

## Question 6



Déterminer  $f'(3)$ .

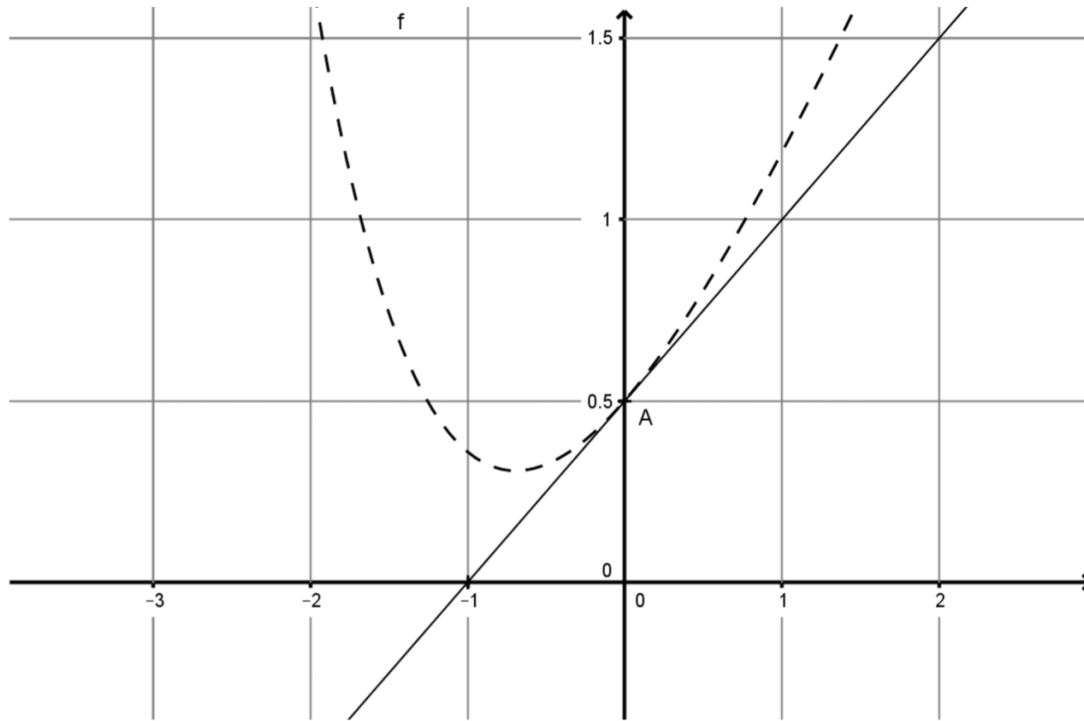
## Question 6



Déterminer  $f'(3)$ .

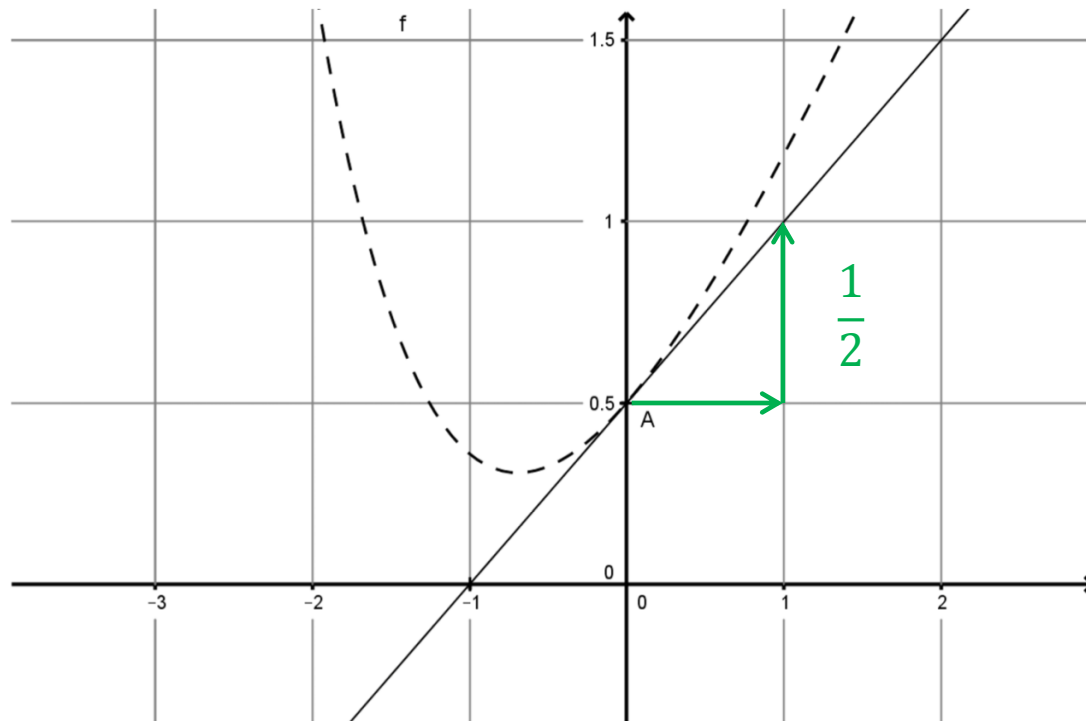
$$f'(3) = -2$$

## Question 7



Déterminer  $f'(0)$ .

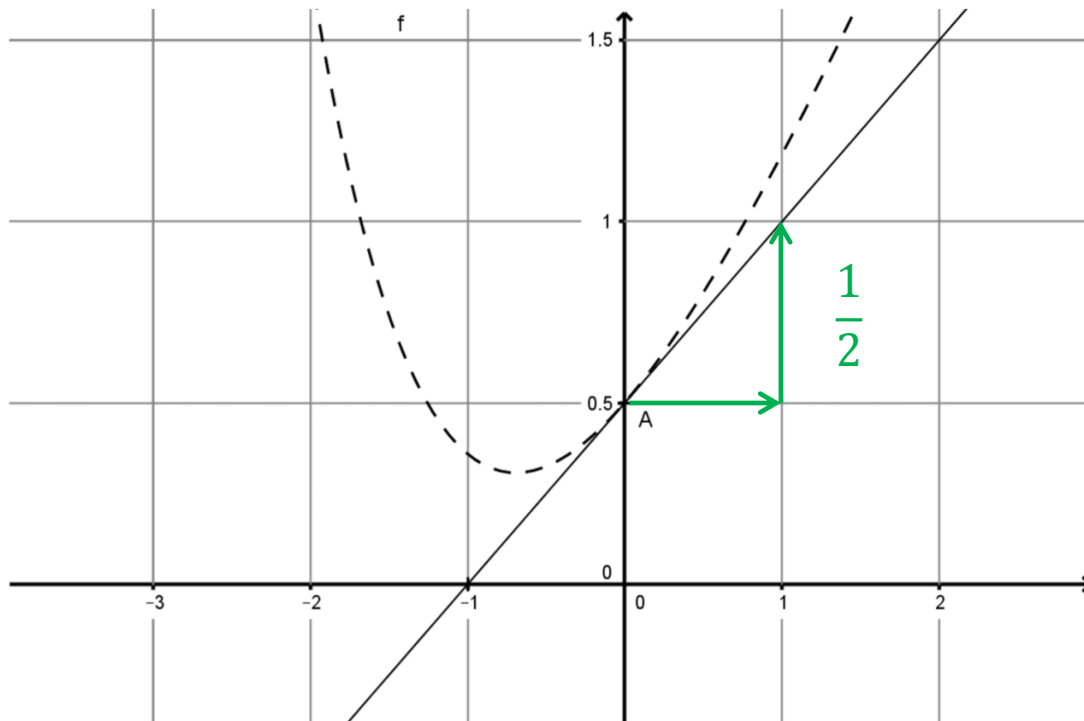
## Question 7



Déterminer  $f'(0)$ .



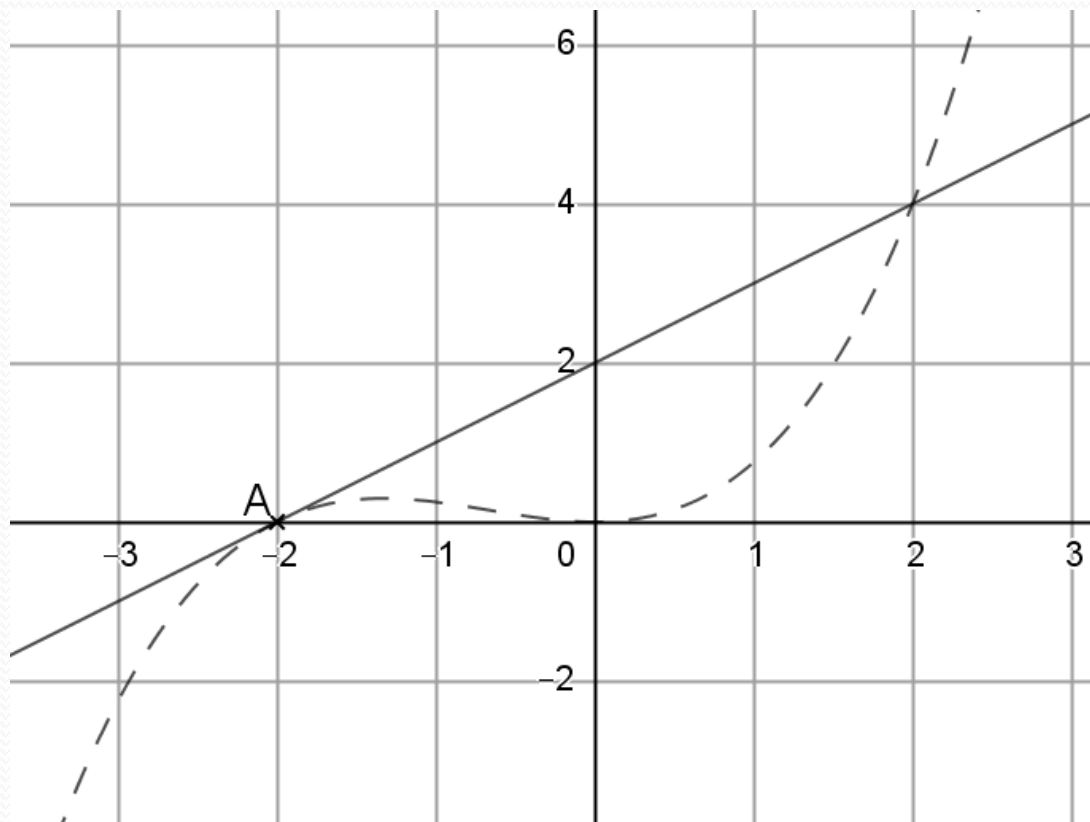
## Question 7



Déterminer  $f'(0)$ .

$$f'(0) = \frac{1}{2}$$

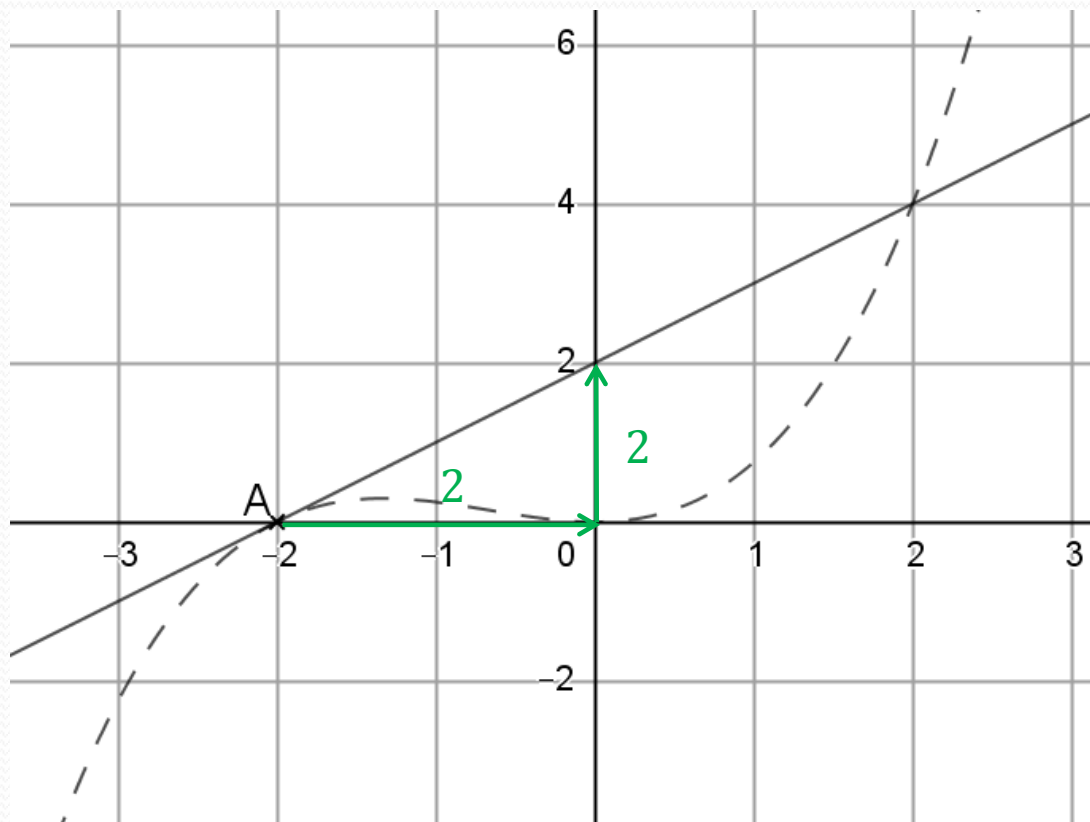
## Question 8



Déterminer  $f'(-2)$ .

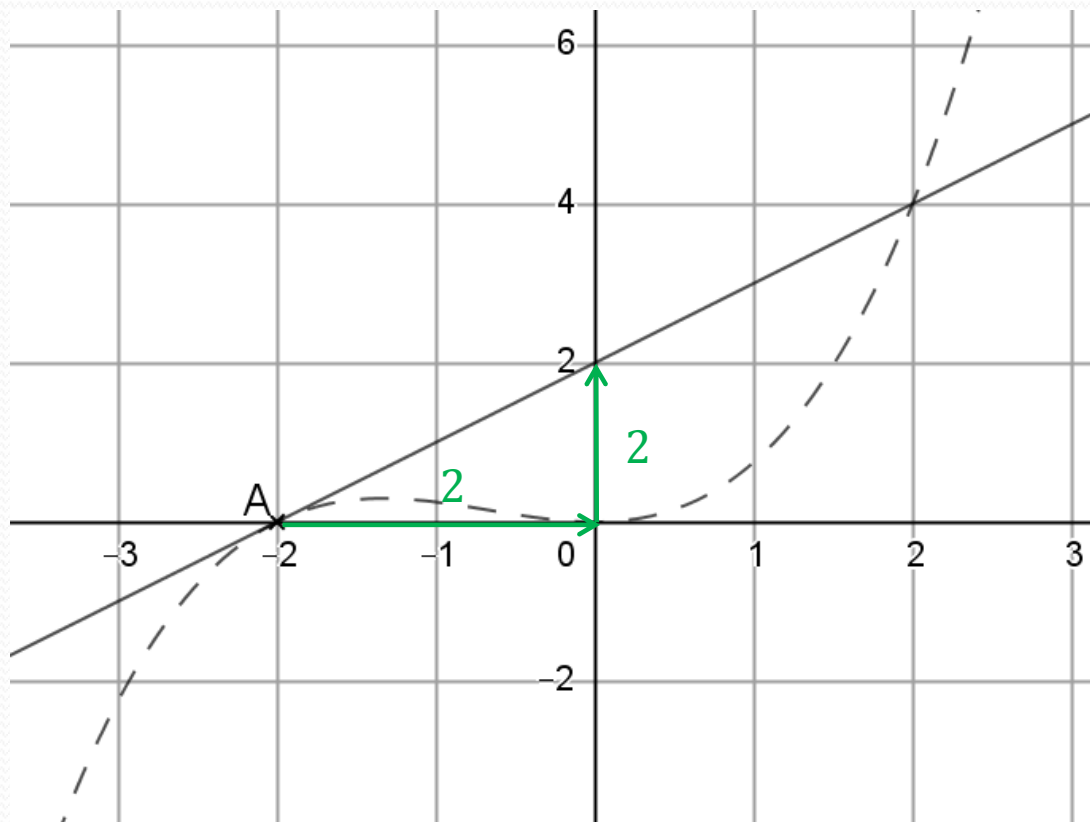
## Question 8

Déterminer  $f'(-2)$ .



## Question 8

Déterminer  $f'(-2)$ .

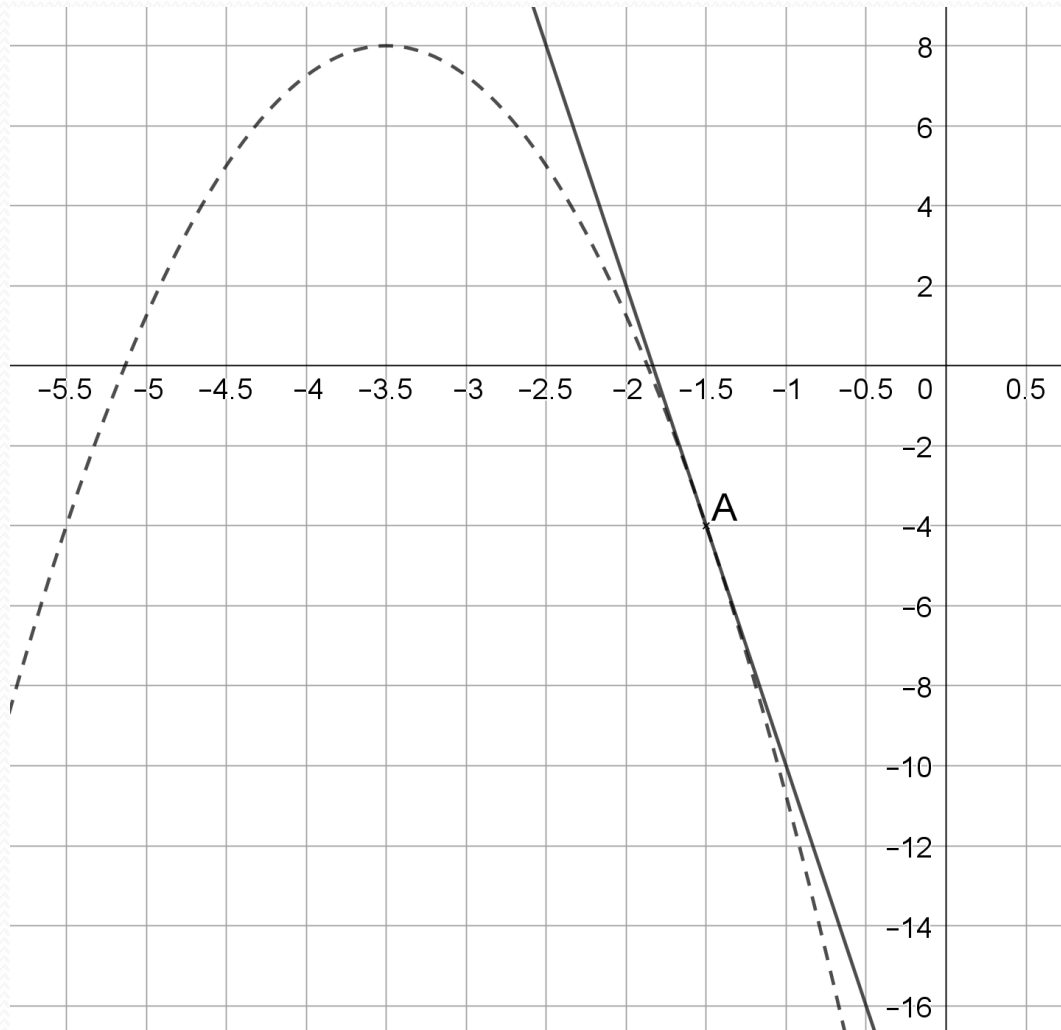


$$f'(-2) = 1$$

## Question 9

Déterminer

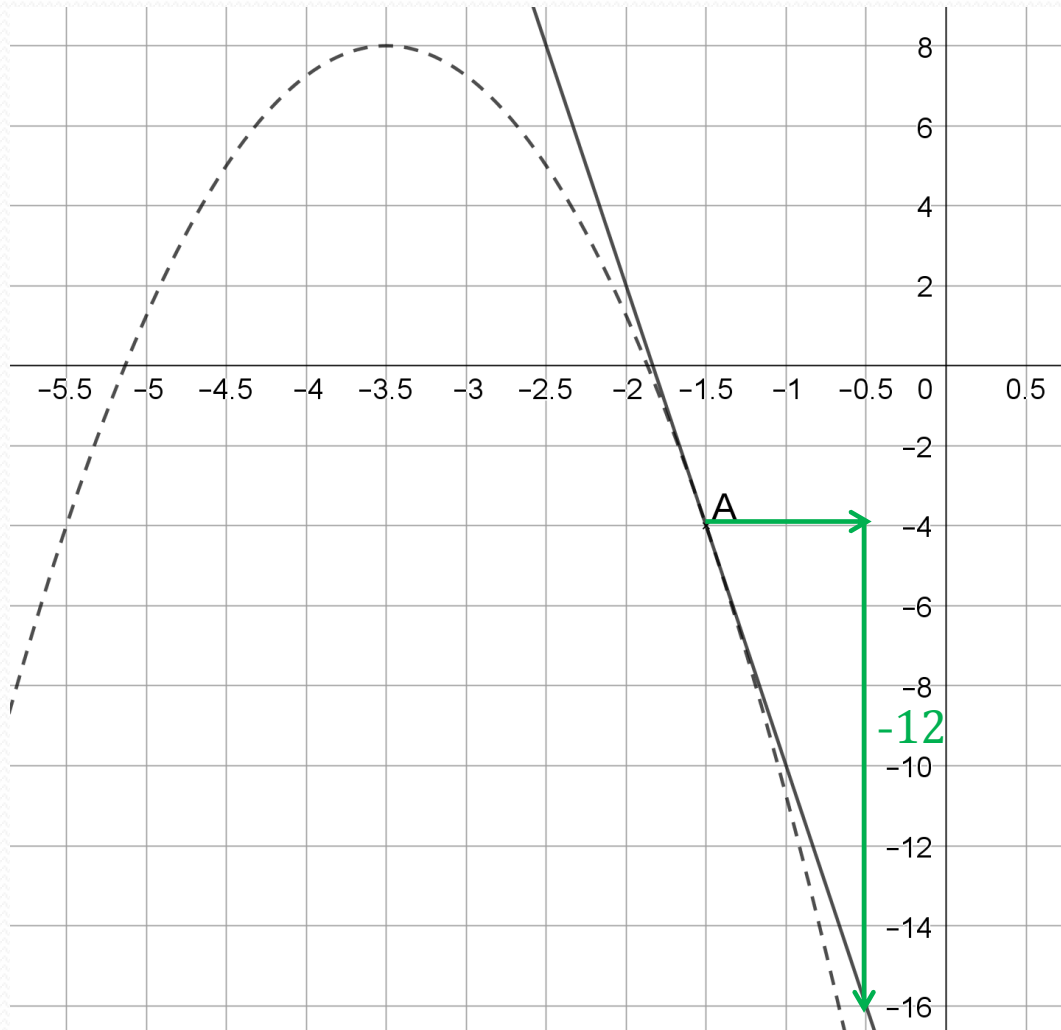
$$f' \left( -\frac{3}{2} \right).$$



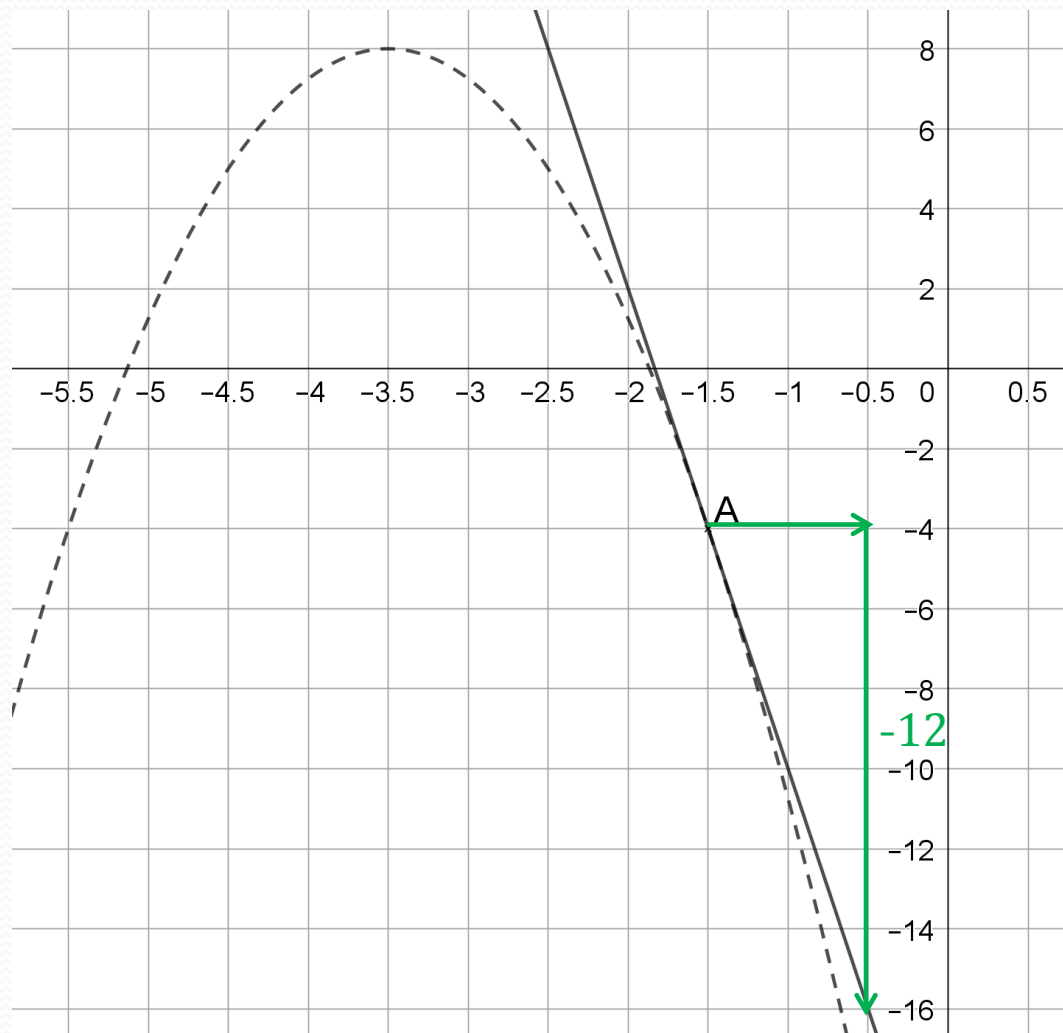
## Question 9

Déterminer

$$f' \left( -\frac{3}{2} \right).$$



## Question 9

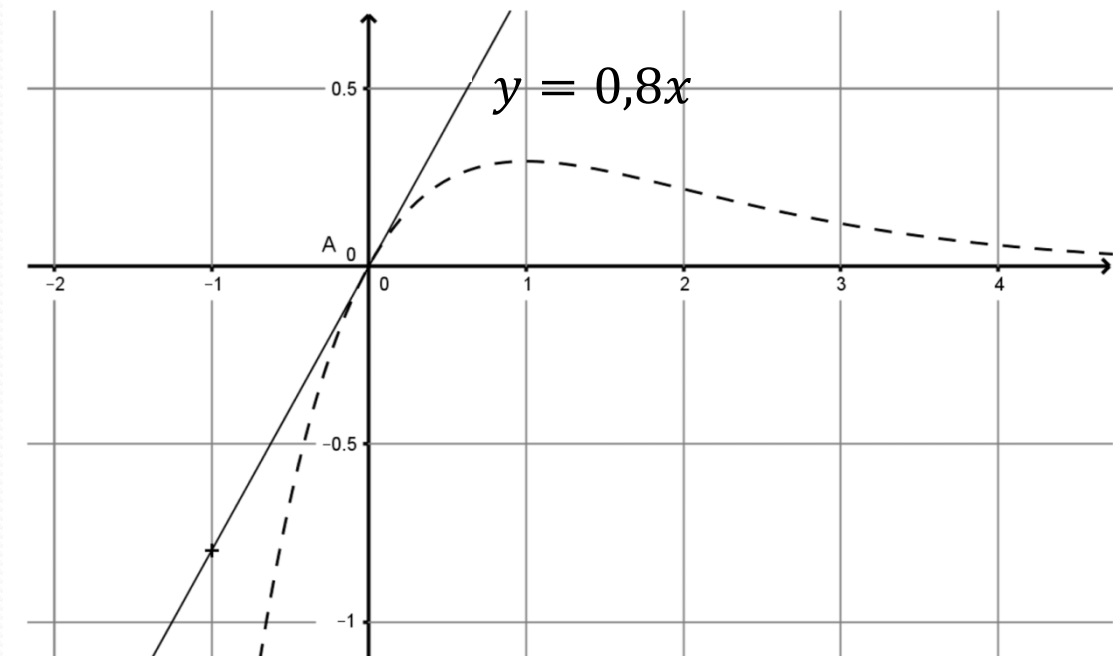


Déterminer

$$f' \left( -\frac{3}{2} \right).$$

$$f' \left( -\frac{3}{2} \right) = -12$$

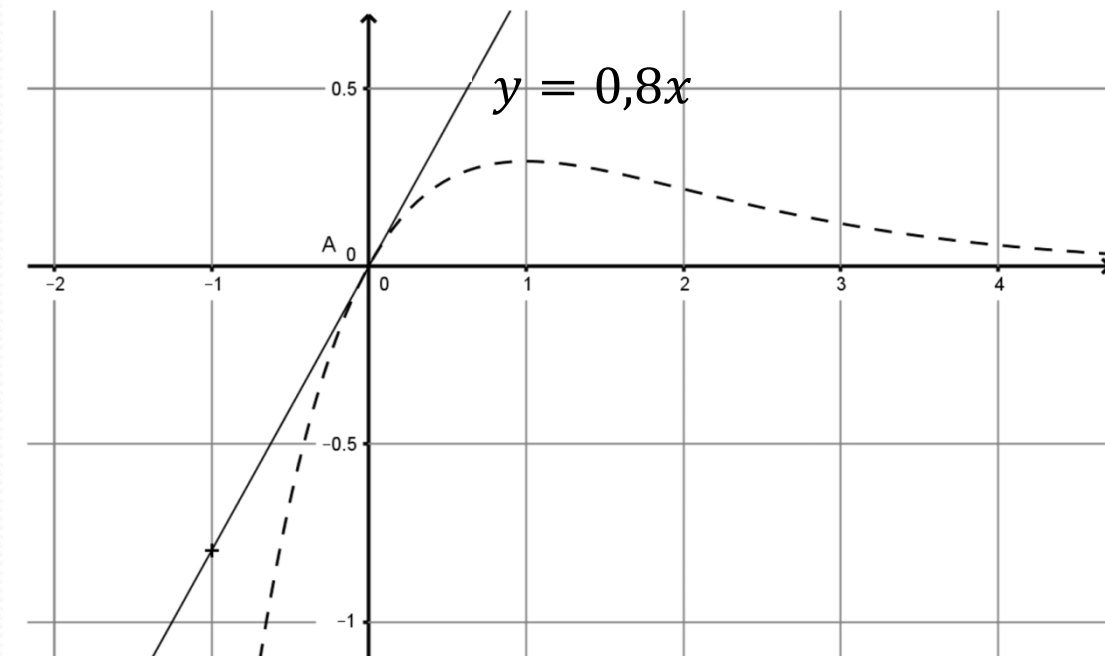
## Question 10



Déterminer  $f'(0)$ .



## Question 10



Déterminer  $f'(0)$ .

$$f'(0) = 0,8$$

# Fin

Activités mentales et automatismes  
IREM de Clermont-Ferrand