

TE le 08/01

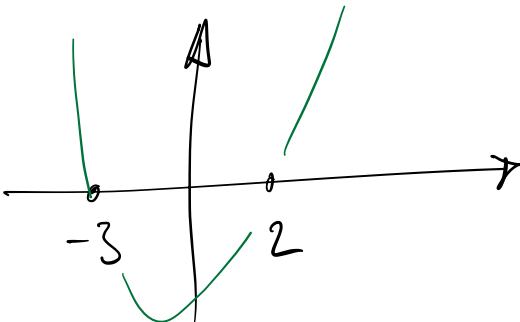
Fonction polynomiale:

- ① Factorisation ✓
- ② Tableau des signes
- ③ Esquisse

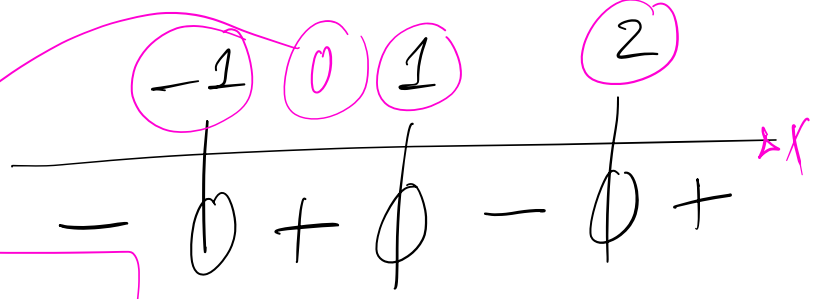
Exemples:

$$\begin{array}{ccccccc} & -3 & & 2 & & & \\ & | & & | & & & \\ + & 0 & - & 0 & + & & \end{array}$$

$$(x-2)(x+3)$$

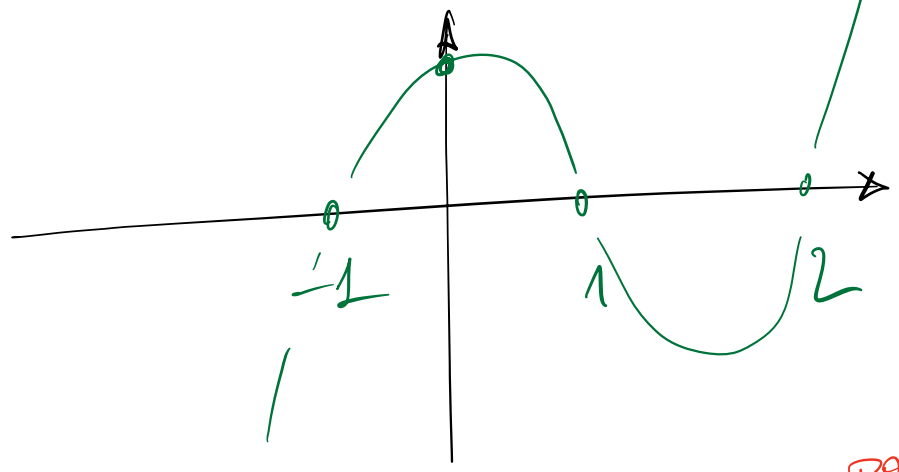


$$(x-1)^1(x+1)^1(x-2)^1$$



$$(0-1)(0+1)(0-2) = -1 \cdot 1 \cdot (-2) = 2 > 0$$

Trois blocs du 1<sup>er</sup> degré LES SIGNES ALTERNENT  
ESQUISSE

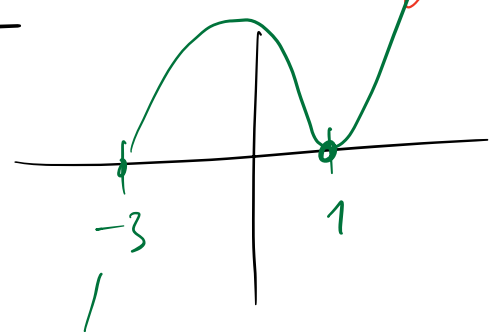
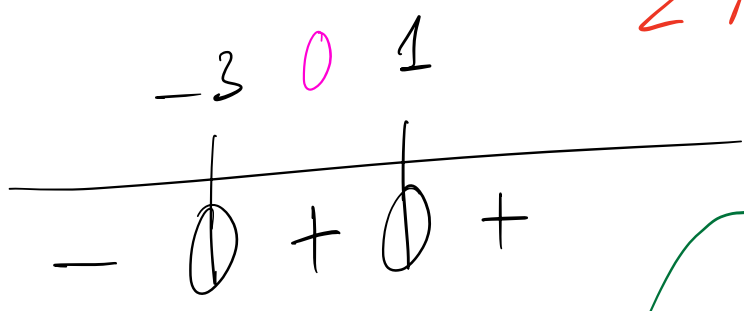


(changement)  
POUR L'ESQUISSE  
CON-BOY.

$$(x-1)^2(x+3) = (x-1)(x-1)(x+3)$$

2 FOIS LE M

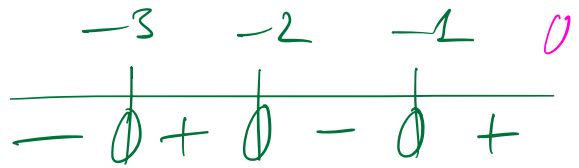
$$(0-1)(0-1)(0+3) = 3 > 0$$



(Bs de changement de signe)

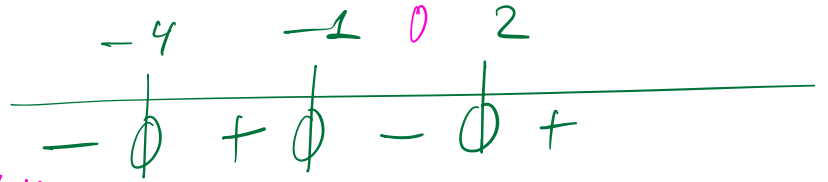
$$1) (x+1)(x+2)(x+3)$$

$$(0+1)(0+2)(0+3) = 1 \cdot 2 \cdot 3 = 6 > 0$$



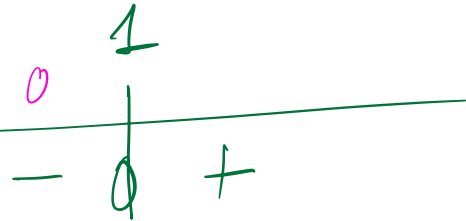
$$2) (x-2)(x+1)(x+4)$$

$$(0-2)(0+1)(0+4) = -2 \cdot 1 \cdot 4 = -8 < 0$$



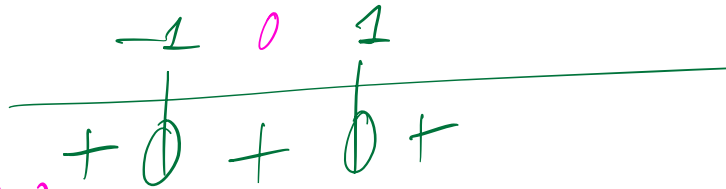
$$3) (x-1)^3$$

$$(0-1)(0-1)(0-1) = -1 < 0$$

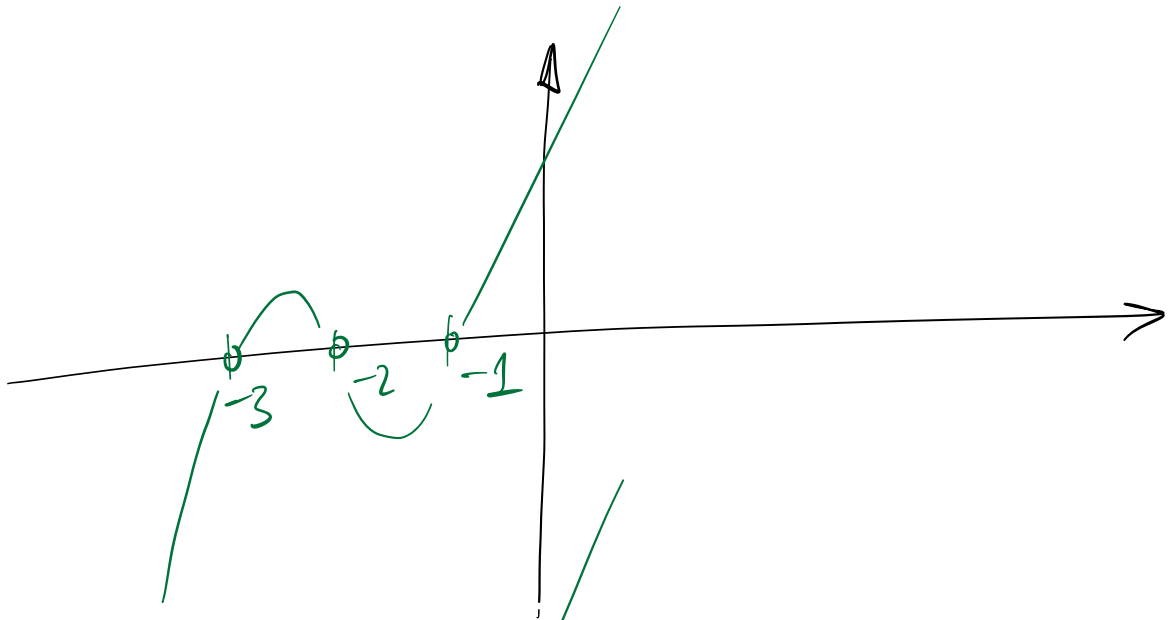


$$4) (x-1)^2(x+1)^2$$

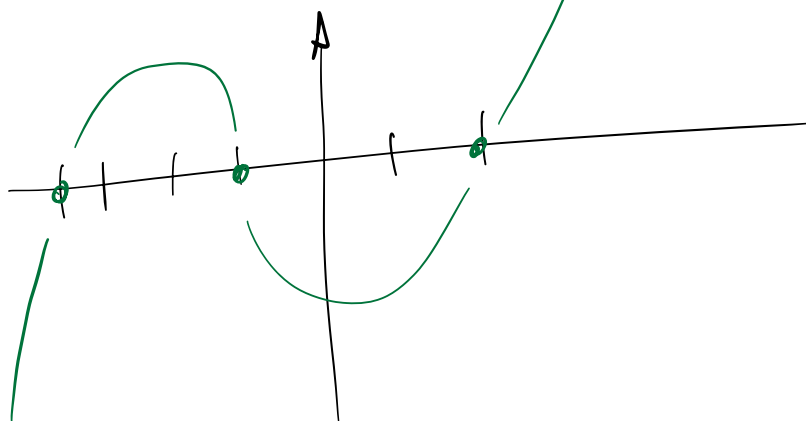
$$(0-1)^2(0+1)^2 = 1 > 0$$



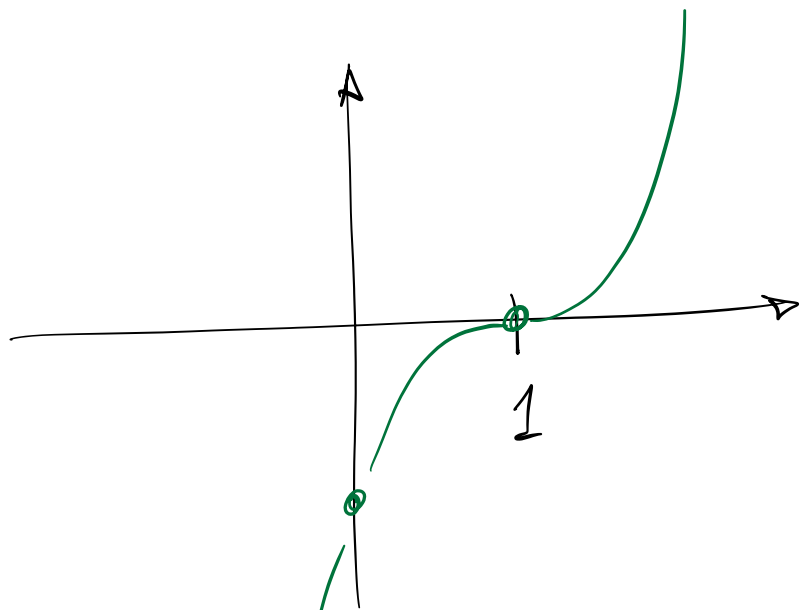
1)



2)



3)



4)

