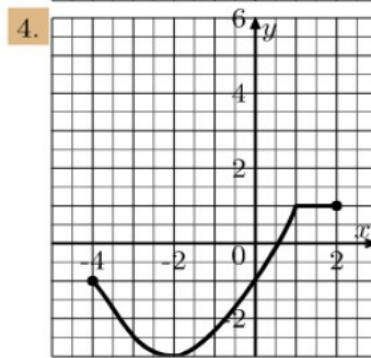
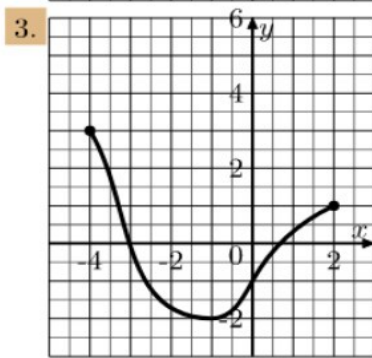
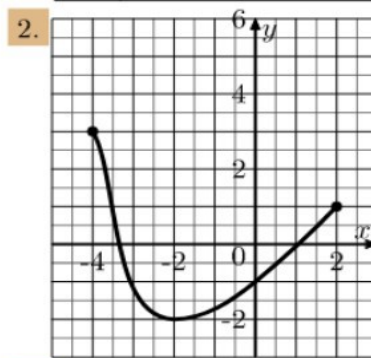
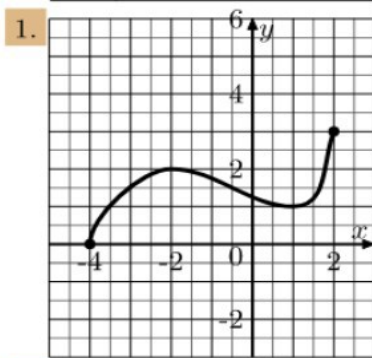


**Ex 1 : [ 4 pts ]**

Dresser le tableau de signes et le tableau de variations des quatre fonctions ci-dessous :



**Ex 2 : [ 10 pts ]**

Résoudre les inéquations à l'aide d'un tableau de signes

- 1)  $(x+4)(1-2x) \geq 0$
- 2)  $\frac{x^2-1}{x+2} > 0$
- 3)  $(2x-1)(x^2+6x+9) < 0$
- 4)  $\frac{x^2-x}{4-2x} \leq 0$
- 5)  $(2x-1)(5-x) \geq (2x-1)(3x+1)$

**Ex 3 : [ 6 pts ]**

Compléter les tableau de signes ci-dessous :

1.

|               |           |           |
|---------------|-----------|-----------|
| $x$           | $-\infty$ | $+\infty$ |
| $1-x$         |           |           |
| $2x+1$        |           |           |
| $(1-x)(2x+1)$ |           |           |

2.

|                |           |           |
|----------------|-----------|-----------|
| $x$            | $-\infty$ | $+\infty$ |
| $x-3$          |           |           |
| $-2x+4$        |           |           |
| $(x-3)(-2x+4)$ |           |           |

3.

|                     |           |           |
|---------------------|-----------|-----------|
| $x$                 | $-\infty$ | $+\infty$ |
| $x+5$               |           |           |
| $-2x-8$             |           |           |
| $\frac{x+5}{-2x-8}$ |           |           |

4.

|                           |           |           |
|---------------------------|-----------|-----------|
| $x$                       | $-\infty$ | $+\infty$ |
| $x-1$                     |           |           |
| $4-x$                     |           |           |
| $-x-1$                    |           |           |
| $\frac{(x-1)(4-x)}{-x-1}$ |           |           |