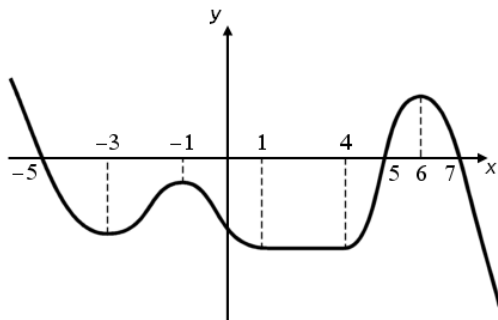


01. Determine os intervalos de valores de x em que cada uma das funções $y = f(x)$ representadas pelos gráficos a seguir:

- é crescente, decrescente ou constante;
- assume valores positivos, negativos ou vale zero;

a)



$f(x)$ crescente \rightarrow

$f(x)$ decrescente \rightarrow

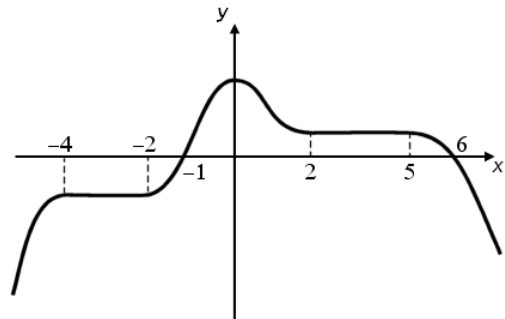
$f(x)$ constante \rightarrow

$f(x) > 0 \rightarrow$

$f(x) < 0 \rightarrow$

$f(x) = 0 \rightarrow$

b)



$f(x)$ crescente \rightarrow

$f(x)$ decrescente \rightarrow

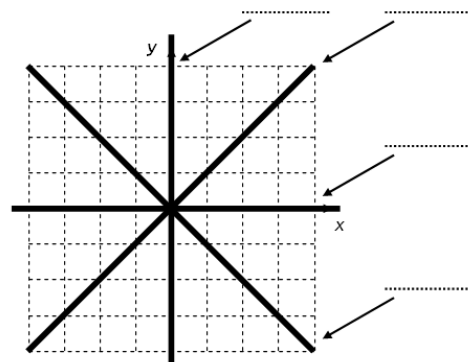
$f(x)$ constante \rightarrow

$f(x) > 0 \rightarrow$

$f(x) < 0 \rightarrow$

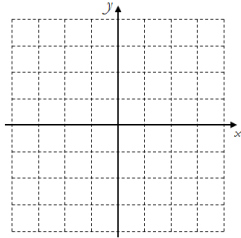
$f(x) = 0 \rightarrow$

02. Preencha as lacunas abaixo com as equações das retas indicadas.

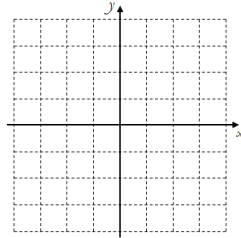


03. Trace esboços dos gráficos abaixo, identificando as famílias a que cada um pertence e descrevendo sua principal característica comum.

$$y = 2$$



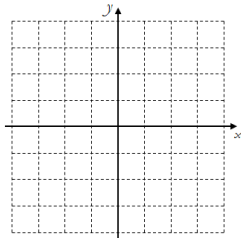
$$y = -3$$



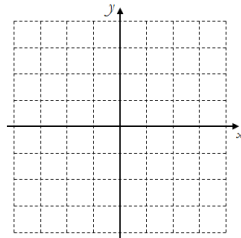
Família de Gráficos:

Característica Comum:

$$x = 3$$



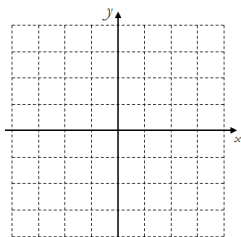
$$x = -2$$



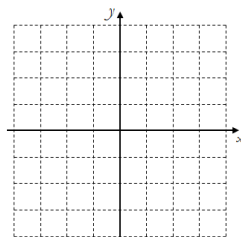
Família de Gráficos:

Característica Comum:

$$y = x^2$$



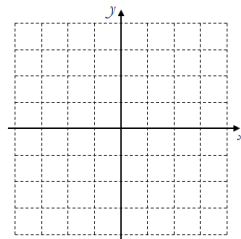
$$y = x^4$$



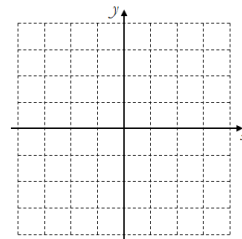
Família de Gráficos:

Característica Comum:

$$y = x^3$$



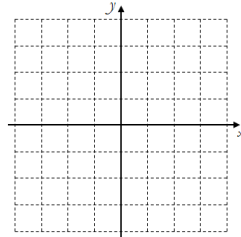
$$y = x^5$$



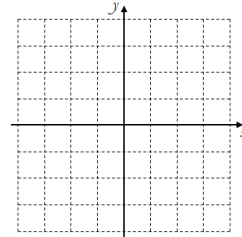
Família de Gráficos:

Característica Comum:

$$y = \sqrt{x}$$



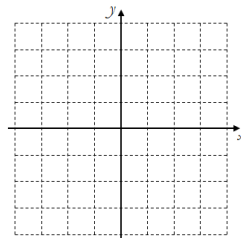
$$y = \sqrt[4]{x}$$



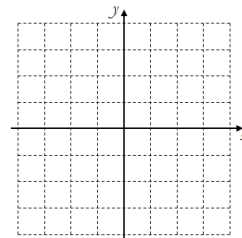
Família de Gráficos:

Característica Comum:

$$y = \sqrt[3]{x}$$



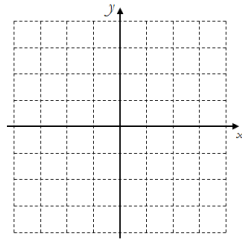
$$y = \sqrt[5]{x}$$



Família de Gráficos:

Característica Comum:

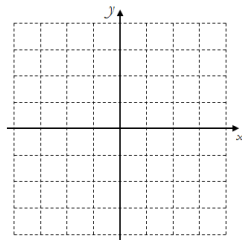
$$y = |x|$$



Família de Gráficos:

Característica Comum:

$$y = \frac{1}{x}$$

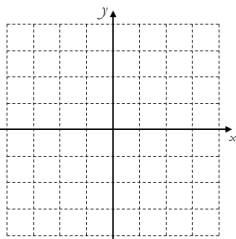


Família de Gráficos:

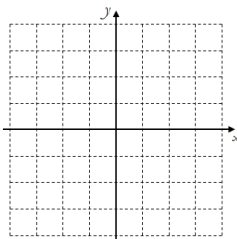
Característica Comum:

04. Trace esboços dos gráficos abaixo considerando as transformações sugeridas e expressando por extenso suas consequências.

$$y = x^2$$

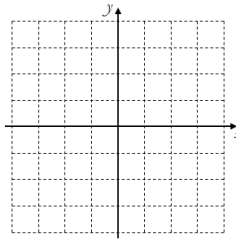


$$y = x^2 + 2$$

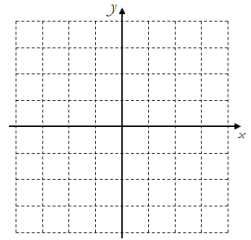


Consequência da Transformação:

$$y = \sqrt{x}$$

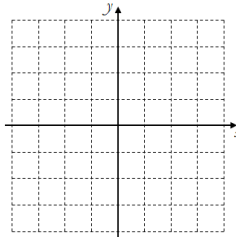


$$y = \sqrt{x+3}$$

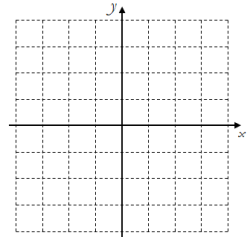


Consequência da Transformação:

$$y = x^3$$

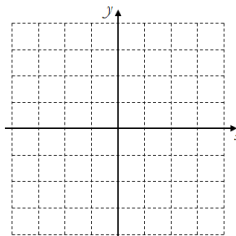


$$y = -x^3$$

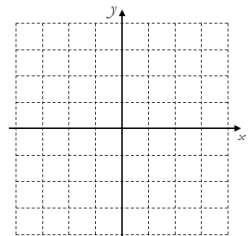


Consequência da Transformação:

$$y = \sqrt[3]{x}$$



$$y = \sqrt[3]{-x}$$



Consequência da Transformação:
