LR MAT EXPLICAÇÕES

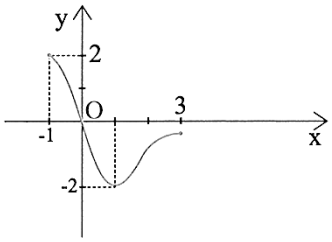
ANO: 10 º ANO **DATA:** ABR

TEMA: DOMÍNIO DE UMA FUNÇÃO.

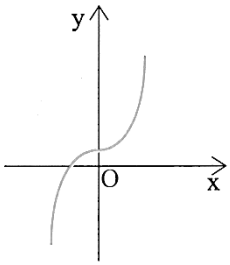
TIPO: FICHA DE TRABALHO Nº7 - EXTRA

1. Indica, justificando, quais os gráficos que podem representar funções.

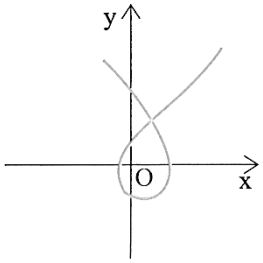
A)



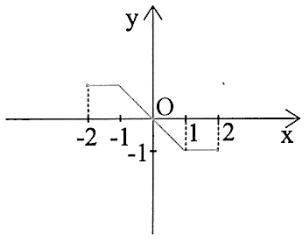
B)



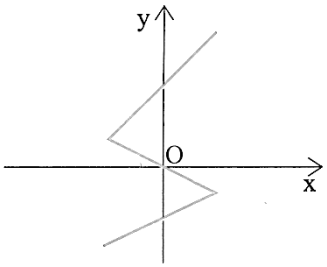
C)



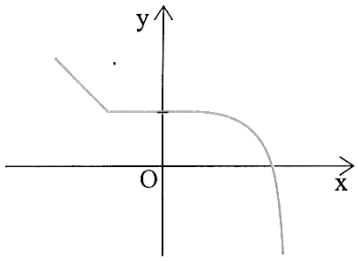
D)



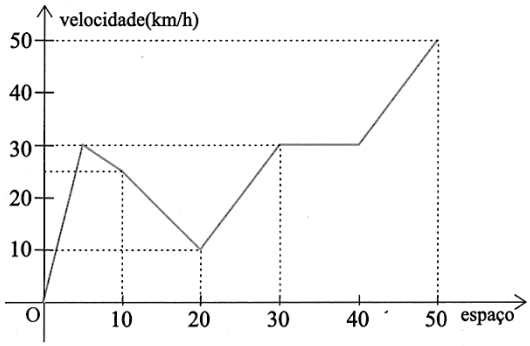
E)



F)



2. Na Volta a Portugal em Bicicleta verificou-se que a velocidade de um ciclista A, numa etapa de contrarrelógio, pode ser representado pelo seguinte gráfico:



2.1 Indica a variável dependente e a variável independente.

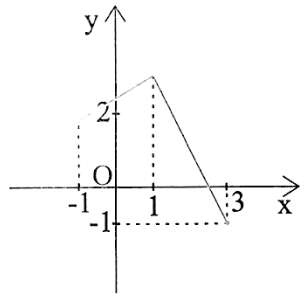
2.2 Indica o domínio e o contradomínio.

2.3 Quais os intervalos em que a função é estritamente crescente? E decrescente? E constante?

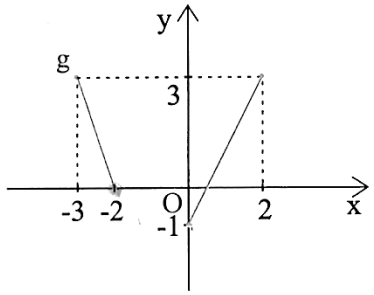
2.4 Em que quilómetro a velocidade é máxima?

3. Considera as funções representadas graficamente.

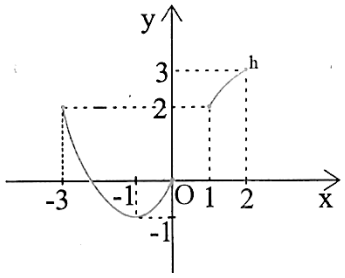
1)



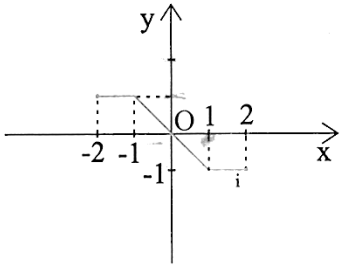
2)



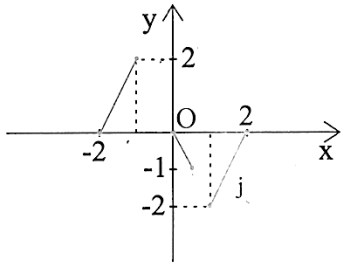
3)



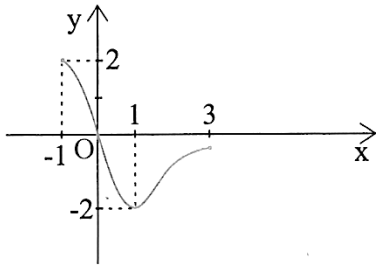
4)



5)



6)



3.1 Indica o domínio e o contradomínio de cada função.

3.2 Completa:

$f(-1) =$ _____ $g(-2) =$ _____ $h(-3) =$ _____

$h(1) =$ _____ $i\left(-\frac{3}{2}\right) =$ _____ $j(1) =$ _____

$l(-1) =$ _____ $l(11) =$ _____ $j(-2) =$ _____

3.3 Completa de forma a obter afirmações verdadeiras:

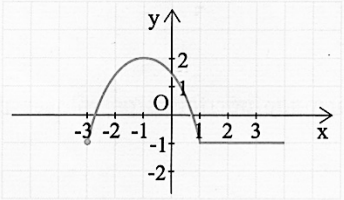
$f(\ \ ) = -1$ $g(\ \ ) = 3$ $g(\ \ ) = -1$

$h(\ \ ) = 2$ $i(\ \ ) = 1$ $i(\ \ ) = -1$

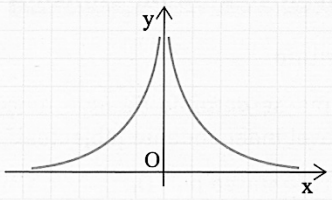
$j(\ \ ) = 0$ $l(\ \ ) = 2$ $l(\ \ ) = -2$

4. Para cada uma das funções, indica o domínio e o contradomínio.

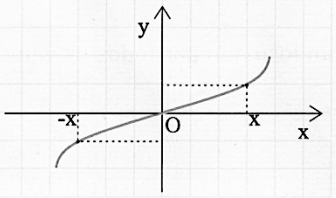
A)



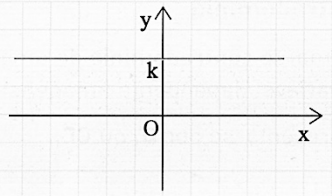
B)



C)



D)



5. Para cada uma das funções representadas graficamente, indica o domínio e o contradomínio.