martes, 2 de febrero de 2021

Respuestas laboratorio 2 Cálculo dif. e int. I

Pregunta 1 (a):

- Dominio de f = R\{-1}
- Imagen de f = R\{1}
- Dominio de 1/f = R\{-1,0}
- Imagen de 1/f = R\{1,0}

Pregunta 1 (b):

- f(f(x))
  - Dominio : R\{-1,-1/2}
  - Regla : f(f(x))= x/(2x+1)

- f(f(f(x)))
  - Dominio : R\{-1,-1/2,-1/3}
  - Regla: f(f(f(x))) = x/(3x+1)

- f(1/f(x))
  - Dominio : R\{-1,-1/2,0}
  - Regla: f(1/f(x)) = (x+1)/(2x+1)

- f(1/(1+f(x)))
  - Dominio: R\{-1,-1/2,-2/3}
  - Regla: f(1/(1+f(x))) = (x+1)/(3x+2)

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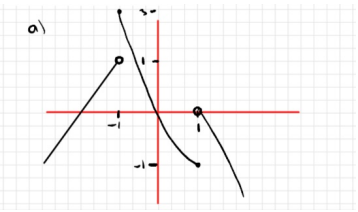
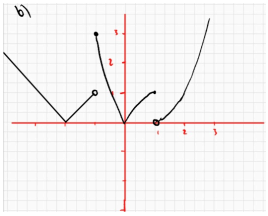
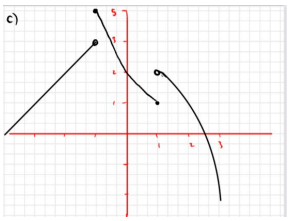
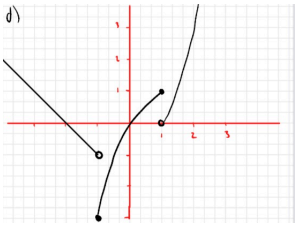
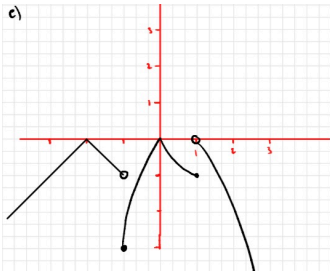
Pregunta 2:

Pregunta 3:

- Dominio de h(x) : [-3,-(5)^(1/2)]U[(5)^(1/2), 3]

Pregunta 4:

- Dominio de gog: R
- Regla:

$$g(g(x))=\begin{cases}(1-x)^2-1, & x<0\\ 1-\left(x^2-1\right), & 0\le x<1\\ \left(x^2-1\right)^2-1, & 1\le x\end{cases}$$

Pregunta 5:

- Dominio de f: R\{1}
- f(x) = (2x + 1) \ (1-x)

Pregunta 6:

f(x) = 12 - [(1-x)\(3)]^3 O f(x) = (x^3 - 3x^2 + 3x + 323)/(27)