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| **Asignatura: MATEMATICA Año: 2014 AER ANUAL MATEMATICA 11** **Docente: JAIRO MONCADA**  **Nombre del estudiante:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****Grado: ONCE****Tipo de actividad: A-E-R FINAL****Fecha de ejecución:**

|  |  |
| --- | --- |
| **Indicadores de desempeño** |  |

1. **Inecuaciones de primer grado**

|  |  |
| --- | --- |
| a) ( x - 2 )2 > (x + 2)⋅ ( x - 2) + 8  | R. ] - ∞ , 0 [ |
| b) ( x - 1 )2 < x ( x - 4) + 8 | R. ] - ∞ , 7/2 [ |
| c) 3 - ( x - 6) ≤ 4x – 5 | R. [ 14/5 , + ∞ [ |
| 1. 3x - 5 - x - 6 < 1

 4 12 | R. ] - ∞ , 21/8 [ |
| e) 1 - x - 5 < 9 + x 9 | R. ] -67/10 , + ∞ [ |
| f) x + 6 - x + 6 ≤ x .  3 15 | R. [ 120/11 , +∞ [ |

1. ¿Qué lugar ocupa el término 109 en la progresión aritmética: -15, -11, -7, ...?
2. En una progresión aritmética el quinto término es 22 y el octavo 34. Calcula la suma de los 60 primeros términos.
3. Interpola cinco medios aritméticos entre –4 y 8.
4. Un oficial al mando de 5050 soldados, les ordena formarse en una disposición triangular para una exhibición, de manera que la primera fila tenga un soldado, la segunda dos, la tercera tres a así sucesivamente. ¿Cuántas filas tendrá la formación?
5. Dados a1=3 , an=59 y d=4, hallar n y Sn.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| DEFINICIÓN DE FUNCIÓN1. Completa la siguiente tabla

|  |  |  |
| --- | --- | --- |
| Función | Dominio |  Rango |
| y = x2 |   |   |
| y = http://www.sectormatematica.cl/imcd/deffun11.gif |   |   |
| y = 2x + 5 |   |   |
| y = http://www.sectormatematica.cl/imcd/deffun12.gif |   |   |
| y = http://www.sectormatematica.cl/imcd/deffun13.gif |   |   |

2. Determina el valor de la función para el punto señalado:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Función | f(-5) | f(-2/3) | f(a + 1) | f(0,4) | f(a - b) | f(http://www.sectormatematica.cl/imcd/deffun14.gif) |
| f(x) = -2x + 1 |   |   |   |   |   |   |
| f(x) = http://www.sectormatematica.cl/imcd/deffun15.gif |   |   |   |   |   |   |
| f(x) = x2 |   |   |   |   |   |   |
| f(x) = 4 |   |   |   |   |   |   |

3. Considera las relaciones siguientes para determinar si son o no función, justificando cada respuesta.

|  |
| --- |
| a) {(1,2), (2,3), (3,1), (4,3)} siendo A = {1, 2, 3, 4} |
| b) {(1,2), (1,3), (2,3), (3,4), (4,4) con A = {1, 2, 3, 4} |
| c) {(1,4), (2,4), (3,4), (4,4)} con A = {1, 2, 3, 4} |
| d) {(0,1), (2,1), (3,1), (1,1)} con A = {0, 1, 2, 3} |

e) f(x) = sen(cos(sen x))  |
| f) f(x) = (7x4 - 4x3 )3  |
| g) f(x) = sen3(sen2(sen x))  |
| h) f(x) = cadena19 |

 **limite1** |