Vu Buddy- MTH202

1. **A function whose range consists of only one element is called.....**
    a. Identity function
    b. Onto function
    c. Constant function
    d. One to one function
2. **A sequence whose terms alternate in sign is called an _____.**
    a. Series
    b. Alternating sequence
    c. None of the above
    d. Cauchy sequence
3. **Real valued function is a function that assigns ____ to each member of its domain.**
    a. negative real number
    b. any arbitrary real number
    c. only a real number
    d. positive real number
4. **[math-block] {\rm{Let}}\,{\rm{ }}\,\,f\left(x \right) = 3x{\rm{ }}\,\,{\rm{and }}\,\,g\left(x \right) = x + 2{\rm{ }}\,\,{\rm{define }}\,\,{\rm{functions }}\,\,f{\rm{ }}\,\,{\rm{and }}\,\,g{\rm{ }}\,\,{\rm{from }}\,\,R{\rm{ }}\,\,{\rm{to }}\,\,R,{\rm{ }}\,\,{\rm{then }}\,\,\left({f.g} \right)\left(x \right)\,\,{\rm{is}}\,\,{\rm{____}}{\rm{.}} [/math-block]**
    a. [math-block] 3x + 2 [/math-block]
    b. [math-block] 4x + 2 [/math-block]
    c. [math-block] 3{x^2} + 6x [/math-block]
    d. [math-block] 2x - 2 [/math-block]

5. **How many one-to-one functions are there from a set with seven elements to a set with six elements.**

    a. 7

    b. 1

    c. 6

    d. 0

6. **x+a,x+3a,x+5a,.....**
   is a|an _____.

    a. geometric series

    b. arithmetic sequence

    c. arithmetic series

    d. geometric sequence

7. **A constant function is one to one iff its ..... is a singelton.**

    a. Range

    b. Domain

8. **[math-block] {\rm{Let }}\,\,g{\rm{ }}\,\,{\rm{be }}\,\,{\rm{a }}\,\,{\rm{function }}\,\, {\rm{defined }}\,\,{\rm{by }}\,\,g\left(x \right) = x + 1.{\rm{ }}\,\,{\rm{Then }}\,\,{\rm{the }}\,\,{\rm{composition }}\,\,{\rm{of }}\,\,{\rm{ }}\left({g \circ g} \right){\rm{(}}x{\rm{) }}\,\, {\rm{is}}\,\,{\rm{____}}{\rm{.}} [/math-block]**

    a. [math-block] x + 1 [/math-block]

    b. [math-block] x [/math-block]

    c. [math-block] {x^2} + 2x + 1 [/math-block]

    d. [math-block] x + 2 [/math-block]

9. **Let [math] f(2) = 3,g(2) = 3,f(4) = 1 [/math] and [math] g(4) = 2 [/math] then the value of [math] fog(4) [/math] is .....**

    a. [math] 2 [/math]

    b. [math] 1 [/math]

    c. [math] 4 [/math]

    d. [math] 3 [/math]

10. **1,2,4,8,16.....is a|an**

a. arithmetic sequence

b. arithmetic series

c. not a sequence

d. geometric sequence

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