

## SECTION – A

1. Given  $g(x) = 4e^{2x} + 3$

Let  $y = 4e^{2x} + 3$

$$\frac{y-3}{4} = e^{2x}$$

Taking logarithms on both sides we get

$$\ln\left(\frac{y-3}{4}\right) = 2x$$

$$x = \frac{1}{2} \ln\left(\frac{y-3}{4}\right) = \ln\sqrt{\frac{y-3}{4}}$$

$$g^{-1}(x) = \ln\sqrt{\frac{x-3}{4}}$$

The domain of  $g^{-1}$  is same as the range of  $g(x) = 4e^{2x} + 3$

The range of  $g(x) = 4e^{2x} + 3$  is  $[3, \infty]$  because the +3 shifts up the graph of the function.

So, the domain of  $g^{-1}$  is  $[3, \infty]$

2. As the three points (2, -3), (3, 1) and (5, n) are said to be collinear, we can form the 3×3 determinant where the first column is the x's for all the points, the second column is the y's for all the points, and the last column is all ones.

Then equate that determinant to zero to get the value of n

$$\begin{vmatrix} 2 & -3 & 1 \\ 3 & 1 & 1 \\ 5 & n & 1 \end{vmatrix} = 0$$

$$2 \begin{vmatrix} 1 & 1 \\ n & 1 \end{vmatrix} - 3 \begin{vmatrix} -3 & 1 \\ n & 1 \end{vmatrix} + 5 \begin{vmatrix} -3 & 1 \\ 1 & 1 \end{vmatrix} = 0$$

$$2(1 - n) - 3(-3 - n) + 5(-3 - 1) = 0$$

$$n = 9$$

3.  $X = \{1, 2, 3, 5, 6, 10, 15, 30\}$

$$f(2, 5, 15) = (2+5) * (5+15) = 10 * (30/5 + 15) = 210$$

4.  $\vec{c} = (3\vec{a} + \vec{b}) + (\vec{a} - 4\vec{b}) = 4\vec{a} - 3\vec{b}$

$$\text{Now } |\vec{c}|^2 = |4\vec{a} - 3\vec{b}|^2 = 16|\vec{a}|^2 - 24\vec{a} \cdot \vec{b} + 9|\vec{b}|^2 = 16(36) + 9(64) - 24(6)\cos 180 = 16(144)$$

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 partly because so many compounds can act as acids or bases

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 until the solution is exactly neutralised i e there is only salt and water it is possible to calculate

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titration of an acid with a base or vice versa the indicator is a substance that can exist in two forms an

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