

# WORKSHEET Class XI

Name :

Date: 13.9.13

Q1 Prove by the principle of mathematical induction, that for all  $n \in \mathbb{N}$

- a)  $1+4+7+\dots+(3n-2) = \frac{n(3n-1)}{2}$
- b)  $1^3+2^3+3^3+\dots+n^3 = \left(\frac{n(n+1)}{2}\right)^2$
- c)  $1 + \frac{1}{(1+2)} + \frac{1}{(1+2+3)} + \dots + \frac{1}{(1+2+3+\dots+n)} = \frac{2n}{(n+1)}$ , for all  $n \in \mathbb{N}$
- d)  $\frac{1}{(1.3)} + \frac{1}{(3.5)} + \frac{1}{(5.7)} + \dots + \frac{1}{((2n-1)(2n+1))} = \frac{n}{(2n+1)}$
- e)  $7^n - 3^n$  is divisible by 4.
- f)  $(1+x)^n \geq 1+nx$  whenever  $x$  is +ve and  $n$  is a +ve integer.
- g)  $4^n + 15n - 1$  is divisible by 9, for  $n \in \mathbb{N}$ .

Q2. Prove that  $(\cos 8A \cos 5A - \cos 12A \cos 9A) / (\sin 8A \cos 5A + \cos 12A \sin 9A) = \tan 4A$ .

Q3. Prove that  $\tan 3x \tan 2x \tan x = \tan 3x - \tan 2x - \tan x$

Q4. If  $A = \{1, 2, 5\}$ ,  $B = \{1, 2, 3, 4\}$  and  $C = \{5, 6, 2\}$ . Verify that

- a)  $A \times (B \cap C) = (A \times B) \cap (A \times C)$
- b)  $(A - B) \times C = (A \times C) - (B \times C)$

Q6. What is the value of  $\cos(\pi/4 - x) \cos(\pi/4 - y) - \sin(\pi/4 - x) \sin(\pi/4 - y)$

Q7. What is the eccentricity of the curve  $4x^2 + y^2 = 100$ .

# Maths Worksheets For Grade 9 Cbse With Answers

**Ying Liu**



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