

VIVEK TUTORIALS

Mathematics Preliminary Examination Max Marks: 20

Time: 30Min Date: 07/Oct/2019 Grade: 9th (ICSE)

4A 4B

Question

1. Evaluate:

(i) $\left(\frac{7}{8}x + \frac{4}{5}y\right)^2$ (ii) $\left(\frac{2x}{7} - \frac{7y}{4}\right)^2$

- 2. The number x is 2 more than the number y. If the sum of the squares of x and y is 34; find the 3 product of x and y.
- If $a^2 + \frac{1}{a^2} = 47$ and $a \ne 0$; find: 3
 - (i) $a + \frac{1}{a}$ (ii) $a^3 + \frac{1}{a^3}$
- 4. The sum of two numbers is 9 and their product is 20. Find sum of their: (i) squares (ii) cubes. 3

Question

- 5. If $a^2 5a 1 = 0$; find:
 - (i) $a \frac{1}{a}$ (ii) $a + \frac{1}{a}$ (iii) $a^2 \frac{1}{a^2}$
- 6. If $a^2 3a + 1 = 0$; find: If $a^2 - 3a + 1 = 0$; find: (i) $a + \frac{1}{a}$ (ii) $a^2 + \frac{1}{a^2}$

- All the Best -----

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