

Extra

N.E.S. HIGH SCHOOL
Bhandup (W), Mumbai - 400 078.
STD. X, DIV. __, ROLL NO. __ I MONTHLY TEST
DATE : 19/07/2018 SUB. :- MATHEMATICS - I

MARKS : 10
TIME : 30 MINS.

Q. I) Solve the following :- [2]

1) Find the value of the following determinants -

$$A = \begin{vmatrix} 3\sqrt{5} & 11 \\ 2 & 4\sqrt{5} \end{vmatrix}$$

2) If $3x + 5y = 9$ and $5x + 3y = 7$ find the value of $(x - y)$

Q. II) Solve the following :- [4]

1) Solve the following simultaneous equations -

a) $\frac{2}{x} - \frac{3}{y} = 15$; $\frac{8}{x} + \frac{5}{y} = 77$

2) Solve the following simultaneous equations -
 $3a + 5b = 26$; $a + 5b = 22$

Q. III) Solve the following :- [4]

1) The denominator of a fraction is 4 more than twice its numerator. Denominator becomes 12 times the numerator, if both the numerator and the denominator are reduced by 6. Find the fraction.

*****All the Best*****