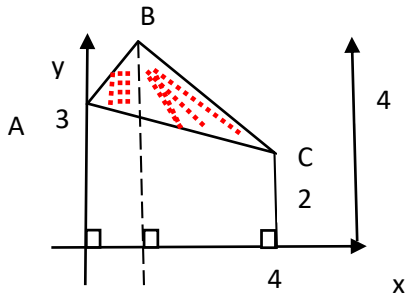


Area of triangle



(I) $S_{\Delta ABC}=?$ The area of the triangles ;

$$S = \frac{3+4}{2} \cdot 1 + \frac{4+2}{2} \cdot 3 - \frac{3+2}{2} \cdot 4$$

$$= 3.5 + 9 - 10 = 2.5$$

(II) $A(0,3)$, $B(1,4)$, $C(4,2)$

$$\frac{1}{2} \cdot \begin{vmatrix} +0 & 3 & +1 \\ 1 & 4 & 1 \\ 4 & 2 & 1 \end{vmatrix} = \frac{1}{2} [-3(1-4) + 1(2-16)]$$

$$= \pm \frac{1}{2} (-5) = \frac{5}{2} = 2.5$$