Determinants - Class XII

Related Questions with Solutions

Questions

Quetion: 01

An equilateral triangle has each of its sides of length 6 cm. If $(x_1, y_1), (x_2, y_2), (x_3, y_3)$ are its vertices, then the value of the determinant $\begin{vmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{vmatrix}^2$ is equal to A. 192 B. 243 C. 486 D. 972

Solutions

Solution: 01

Now,

$\left \frac{1}{2}\right $	x_1	y_1	1	$=9\sqrt{3}$ \Rightarrow	x_1	y_1	1	$\Big ^2 = 243 \times 4 = 972$
	x_2	y_2	1		x_2	y_2	1	
	x_3	y_3	1		x_3	y_3	1	

Correct Options

Answer:01 Correct Options: D