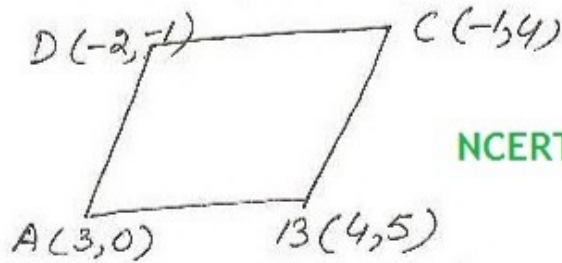


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Ex 7.2

NCERT Solutions by Dev Anoop (Bathinda)

$$AC = \sqrt{(-1-3)^2 + (4-0)^2}$$
$$= \sqrt{32}$$

$$BD = \sqrt{(-2-4)^2 + (-1-5)^2}$$
$$= \sqrt{36+36}$$
$$= \sqrt{72}$$

$$\text{area of rhombus} = \frac{1}{2} \times AC \times BD$$
$$= \frac{1}{2} \times \sqrt{32} \times \sqrt{72}$$
$$= \frac{1}{2} \sqrt{2^2 \times 2^2 \times 2 \times 2 \times 2^2 \times 3^2}$$
$$= \frac{1}{2} \times 2 \times 2 \times 2 \times 2 \times 3$$
$$= 24 \text{ sq. units}$$

or

$$\text{area of rhombus} = \frac{1}{2} \begin{vmatrix} 3 & 0 \\ 4 & 5 \\ -1 & 4 \\ -2 & -1 \\ 3 & 0 \end{vmatrix}$$
$$= \frac{1}{2} | 15 - 0 + 16 + 5 + 1 + 8 + 0 + 3 |$$

$$= \frac{1}{2} | 48 |$$

NCERT Solutions by Dev Anoop (Bathinda)

$$= \frac{1}{2} \times 48$$

$$= 24 \text{ sq. units}$$