

In Fig ABCD is a rhombus. Diagonals AC and BD intersect at O. E and F are mid points of AO and BO respectively. If AC = 16 cm and BD = 12 cm then EF is

$$EO = 4 \text{ cm}$$

$$OF = 3 \text{ cm}$$

$$EF = ?$$

$$H^2 = B^2 + P^2$$

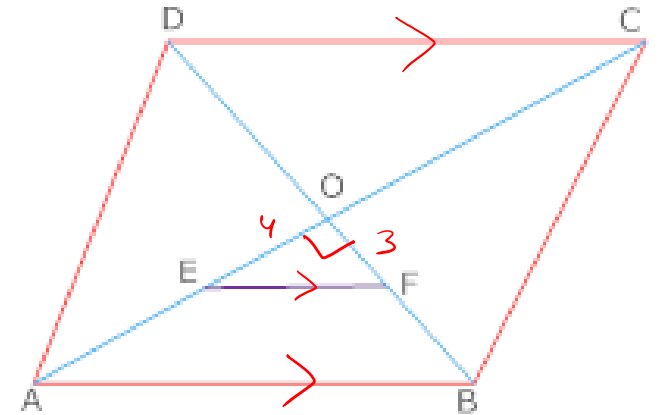
$$H = \sqrt{B^2 + P^2}$$

$$EF = \sqrt{OE^2 + OF^2}$$

$$= \sqrt{4^2 + 3^2}$$

$$= \sqrt{16 + 9}$$

$$= \sqrt{25}$$



$$EF = 5 \text{ cm}$$