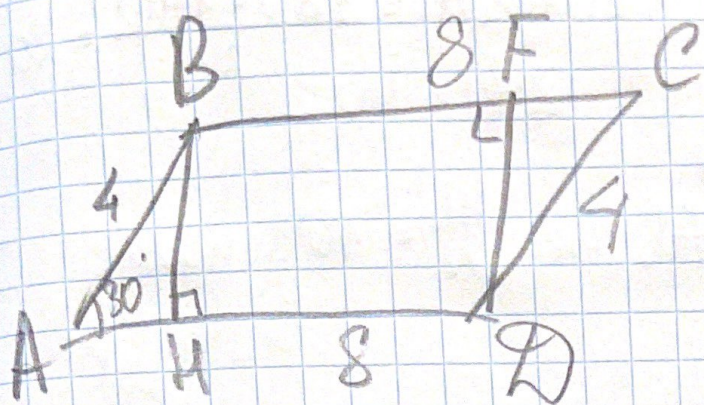




$$1) S_{\triangle ABH} = \frac{1}{2} AH \cdot BH = \frac{1}{2} \cdot 2 \cdot 2\sqrt{3} = 2\sqrt{3} \text{ cm}^2$$

$$AH = \cos 30^\circ \cdot AB = \frac{\sqrt{3}}{2} \cdot 4 = 2\sqrt{3} \text{ cm}$$

$$BH = \sin 30^\circ \cdot AB = \frac{1}{2} \cdot 4 = 2 \text{ cm}$$

$$2) S_{ABCD} = AD \cdot BH = 8 \cdot 2 = 16 \text{ cm}^2$$

$$3) S_{HBFH} = BH \cdot HF = 2 \cdot (8 - 2\sqrt{3}) = 16 - 4\sqrt{3} \text{ cm}^2$$

$$4) S_{ABFH} = \frac{BF + AD}{2} \cdot BH = \frac{(8 - 2\sqrt{3}) + 8}{2} \cdot 2 = 16 - 2\sqrt{3} \text{ cm}^2$$