

ANSWER (6)

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$$r = 20 \text{ cm}$$

$$h = 10 \text{ cm}$$

$$h = Rr \Rightarrow R = \frac{h}{r} = \frac{10}{20} = 0.5$$

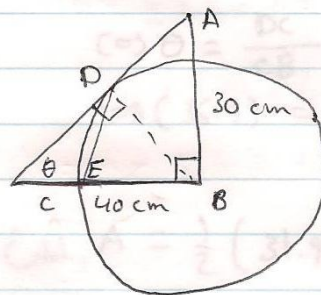
$$A = \frac{1}{2} r^2 [R - \sin R]$$

$$= \frac{1}{2} (20^2) [0.5 - \sin 0.5]$$

$$= 4.1 \text{ cm}^2$$

ANSWER (7)

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من فيثاغورس

$$AC = 50$$

والفاوور من B على AD

« لأنه عمودي »

$$\sin(\theta) = \frac{30}{50} \Rightarrow \theta =$$

$$\theta = \text{shift} \rightarrow \sin\left(\frac{30}{50}\right) = 36.9^\circ$$

$$\sin(36.9) = \frac{DB}{40} \Rightarrow DB = 40 \cdot \sin(36.9)$$

$$= 24.0$$

$$= 24 = \text{طول نصف القطر}$$