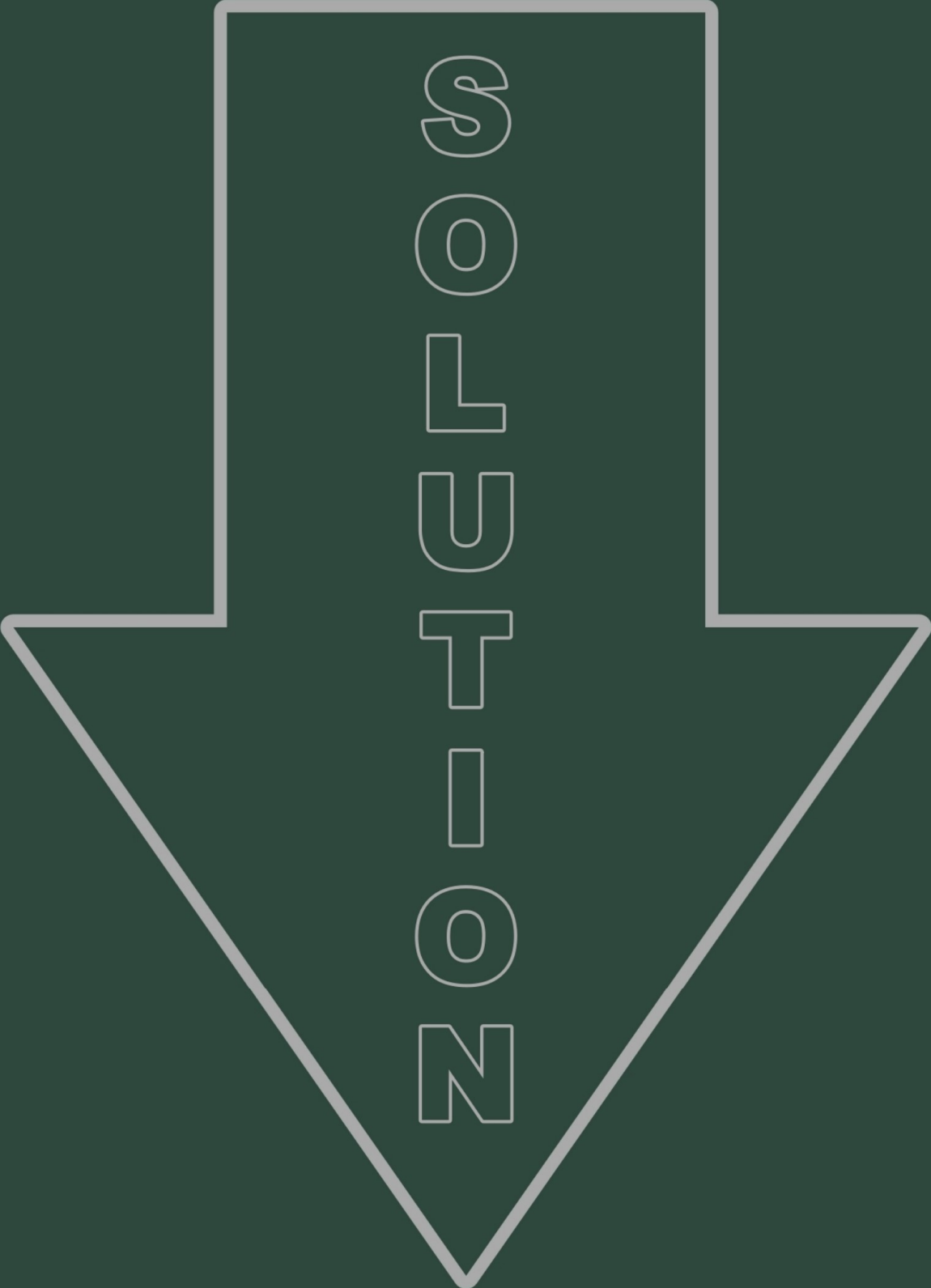
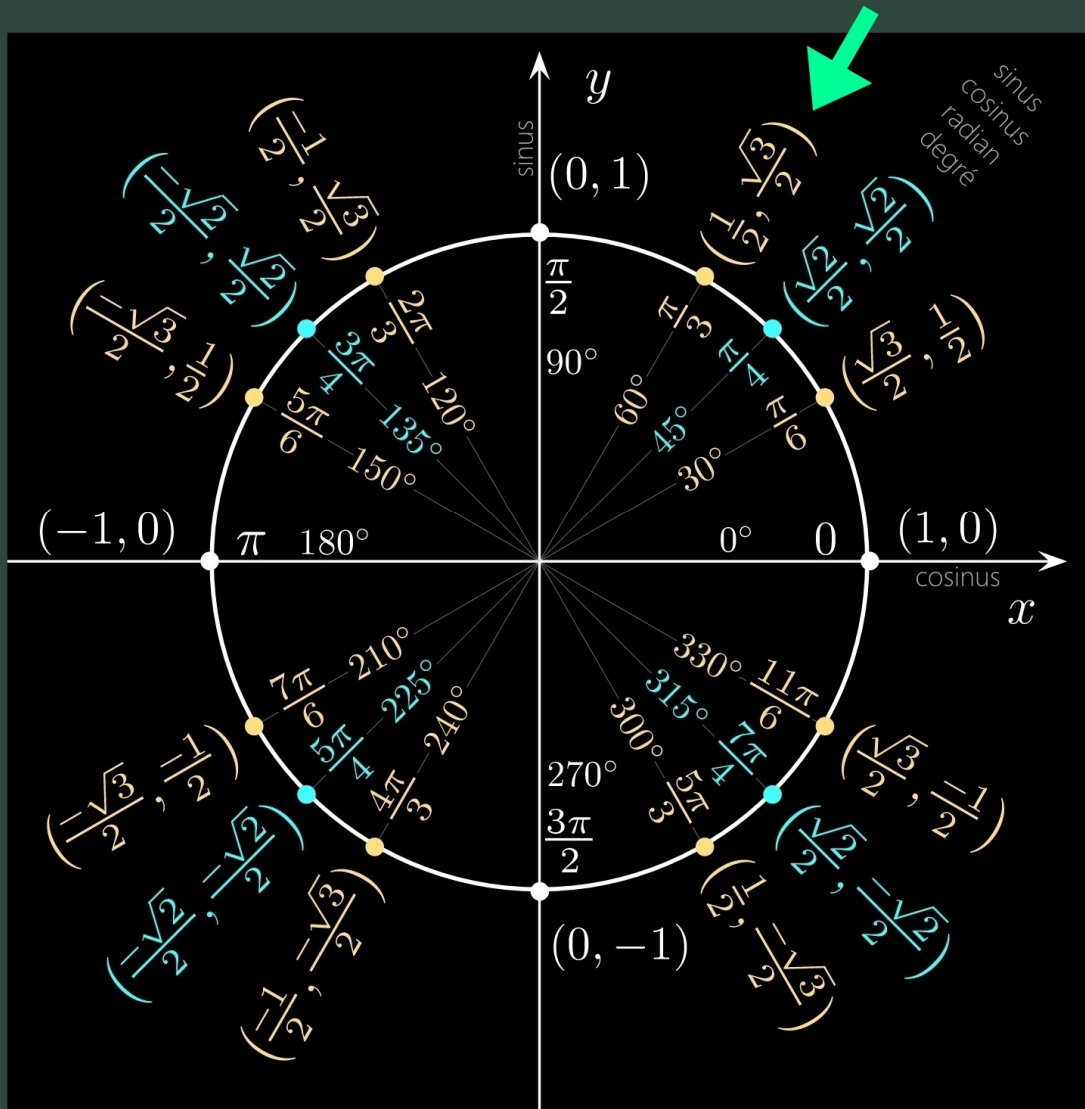
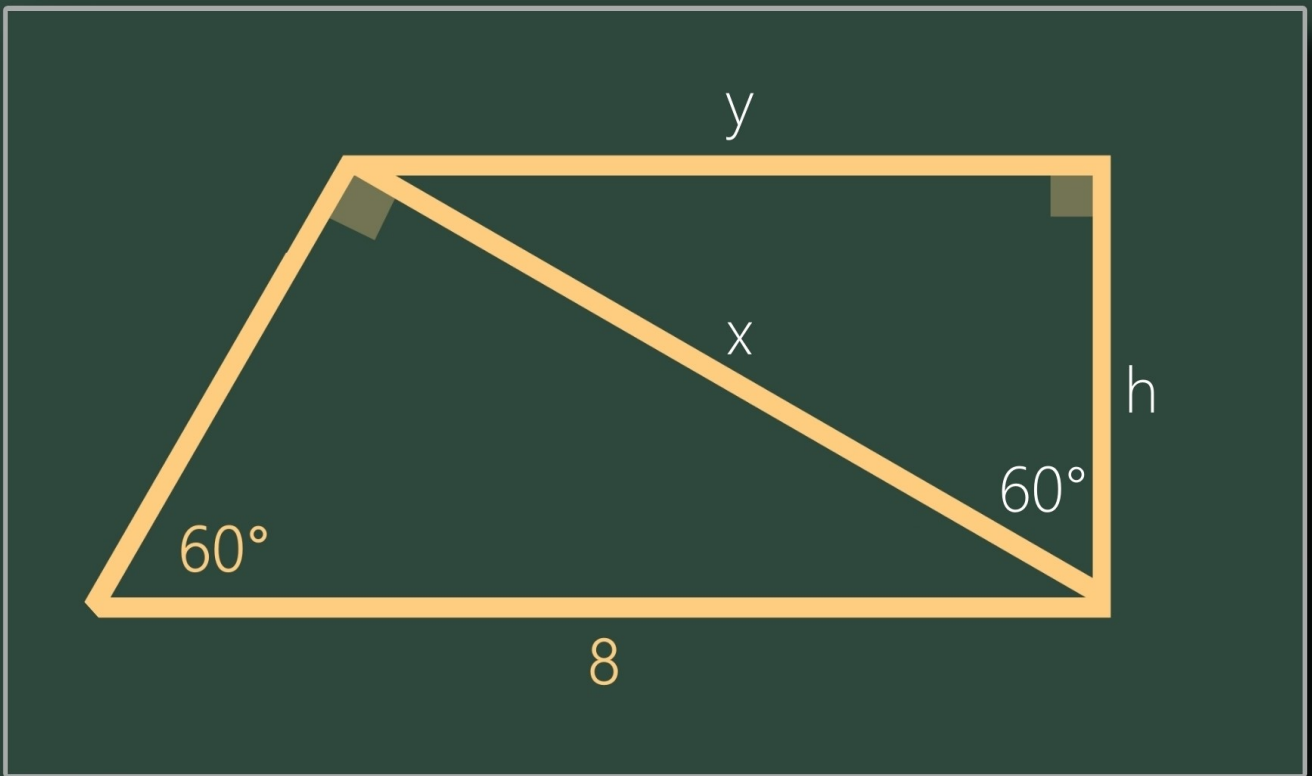


calculer l'aire  
de la figure ci-dessus



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----- R É P O N S E -----

----- longueur du côté x -----

$$\sin(60) = x/8$$

$$x = 8 \cdot \sin(60)$$

$$\text{rappel: } \sin(60) = \sqrt{3}/2$$

$$x = 8 \cdot \sqrt{3}/2$$

$$x = 4 \cdot \sqrt{3}$$

----- longueur du côté y -----

$$\sin(60) = y/(4 \cdot \sqrt{3})$$

$$y = (4 \cdot \sqrt{3}) \cdot \sin(60)$$

$$\text{rappel: } \sin(60) = \sqrt{3}/2$$

$$y = (4 \cdot \sqrt{3}) \cdot (\sqrt{3}/2)$$

$$y = 6$$

----- longueur de la hauteur h -----

$$(4 \cdot \sqrt{3})^2 = 6^2 + h^2$$

$$h^2 = (4 \cdot \sqrt{3})^2 - 6^2$$

$$h^2 = 48 - 36$$

$$h = \sqrt{12}$$

----- résultat final -----

$$\text{aire} = (8 + 6) \cdot (\sqrt{12}/2)$$

■ 24,24 unités de surface