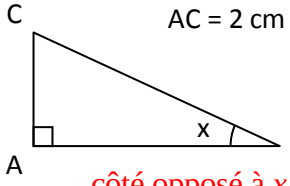
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CORRIGE – M. QUET

EXERCICE 1

AC = 2 cm et BC = 6 cm.

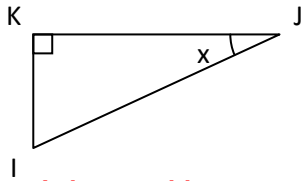


$$\sin x = \frac{\text{côté opposé à } x}{\text{hypoténuse}} = \frac{AC}{BC} = \frac{2}{6}$$

$$\rightarrow x = \sin^{-1}\left(\frac{2}{6}\right) \simeq 19,5°$$

EXERCICE 2

x = 25° et IJ = 13 cm.



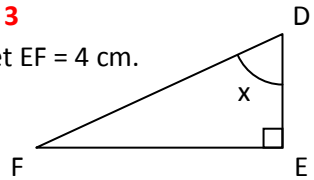
$$\sin x = \frac{\text{côté opposé à } x}{\text{hypoténuse}} = \frac{IK}{IJ}$$

$$\sin 25 = \frac{IK}{13}$$

$$IK = 13 \times \sin 25 \simeq 5,5\,\text{cm}$$

EXERCICE 3

x = 62° et EF = 4 cm.



$$\tan x = \frac{\text{côté opposé à } x}{\text{côté adjacent à } x} = \frac{EF}{DE}$$

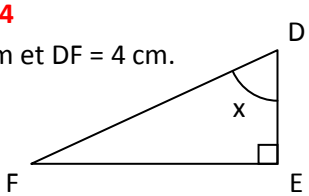
$$\tan 62 = \frac{4}{DE}$$

$$DE \times \tan 62 = 4$$

$$DE = \frac{4}{\tan 62} \simeq 2,1\,\text{cm}$$

EXERCICE 4

DE = 2 cm et DF = 4 cm.

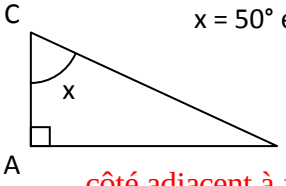


$$\cos x = \frac{\text{côté adjacent à } x}{\text{hypoténuse}} = \frac{DE}{DF} = \frac{2}{4}$$

$$x = \cos^{-1}\left(\frac{2}{4}\right) = 60°$$

EXERCICE 5

x = 50° et AC = 6 cm.



$$\cos x = \frac{\text{côté adjacent à } x}{\text{hypoténuse}} = \frac{AC}{BC}$$

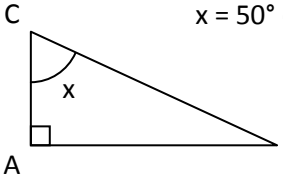
$$\cos 50 = \frac{6}{BC}$$

$$BC \times \cos 50 = 6$$

$$BC = \frac{6}{\cos 50} \simeq 9,3\,\text{cm}$$

EXERCICE 6

x = 50° et BC = 6 cm.



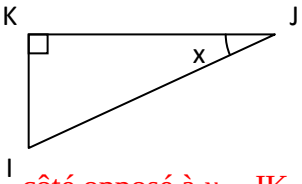
$$\cos x = \frac{\text{côté adjacent à } x}{\text{hypoténuse}} = \frac{AC}{BC}$$

$$\cos 50 = \frac{AC}{6}$$

$$AC = 6 \times \cos 50 \simeq 3,9\,\text{cm}$$

EXERCICE 7

IK = 5 cm et IJ = 13 cm.

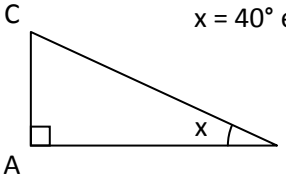


$$\sin x = \frac{\text{côté opposé à } x}{\text{hypoténuse}} = \frac{IK}{IJ} = \frac{5}{13}$$

$$x = \sin^{-1}\left(\frac{5}{13}\right) \simeq 22,6°$$

EXERCICE 8

x = 40° et AC = 6 cm.



$$\sin x = \frac{\text{côté opposé à } x}{\text{hypoténuse}} = \frac{AC}{BC} = \frac{2}{6}$$

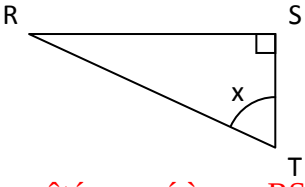
$$\sin 40 = \frac{6}{BC}$$

$$BC \times \sin 40 = 6$$

$$BC = \frac{6}{\sin 40} \simeq 9,3\,\text{cm}$$

EXERCICE 9

ST = 7 cm et RS = 19 cm.

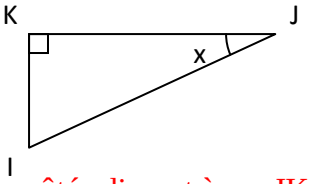


$$\tan x = \frac{\text{côté opposé à } x}{\text{côté adjacent à } x} = \frac{RS}{ST} = \frac{19}{7}$$

$$x = \tan^{-1}\left(\frac{19}{7}\right) \simeq 69,8°$$

EXERCICE 10

x = 25° et IK = 13 cm.



$$\cos x = \frac{\text{côté adjacent à } x}{\text{hypoténuse}} = \frac{IK}{IJ}$$

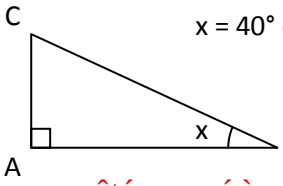
$$\cos 25 = \frac{13}{IJ}$$

$$IJ \times \cos 25 = 13$$

$$IJ = \frac{13}{\cos 25} \simeq 14,3\,\text{cm}$$

EXERCICE 11

x = 40° et BC = 6 cm.



$$\sin x = \frac{\text{côté opposé à } x}{\text{hypoténuse}} = \frac{AC}{BC}$$

$$\sin 40 = \frac{AC}{6}$$

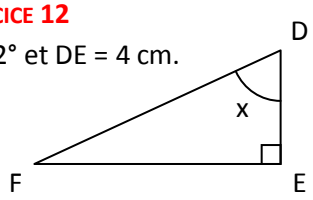
$$AC = 6 \times \sin 40 \simeq 3,9\,\text{cm}$$

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EXERCICE 12

x = 62° et DE = 4 cm.



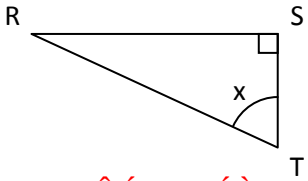
$$\tan x = \frac{\text{côté opposé à } x}{\text{côté adjacent à } x} = \frac{EF}{DE}$$

$$\tan 62 = \frac{EF}{4}$$

$$EF = 4 \times \tan 62 \simeq 7{,}5\,\text{cm}$$

EXERCICE 13

x = 57° et ST = 19 cm.



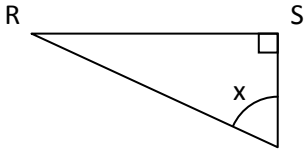
$$\tan x = \frac{\text{côté opposé à } x}{\text{côté adjacent à } x} = \frac{RS}{ST}$$

$$\tan 57 = \frac{RS}{19}$$

$$RS = 19 \times \tan 57 \simeq 29{,}3\,\text{cm}$$

EXERCICE 14

x = 57° et RS = 19 cm.



$$\tan x = \frac{\text{côté opposé à } x}{\text{côté adjacent à } x} = \frac{RS}{ST}$$

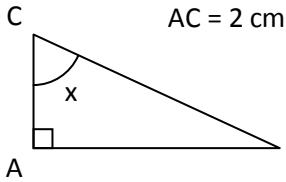
$$\tan 57 = \frac{19}{ST}$$

$$ST \times \tan 57 = 19$$

$$ST = \frac{19}{\tan 57} \simeq 12{,}3\,\text{cm}$$

EXERCICE 15

AC = 2 cm et BC = 6 cm.



$$\cos x = \frac{\text{côté adjacent à } x}{\text{hypoténuse}} = \frac{AC}{BC} = \frac{2}{6}$$

$$x = \cos^{-1}\left(\frac{2}{6}\right) \simeq 70{,}5°$$

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