



# Exercices corrigés Pythagore 4eme

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4eme - Cycle 4

Geometrie

## Exercices corrigés Pythagore — 4eme

6 exercices pour maitriser le **theoreme de Pythagore** en 4eme.

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### Exercice 1 — Hypotenuse

Triangle MNP rectangle en M.  $MN = 5$ ,  $MP = 12$ . **Calculer NP.**

#### Correction

$$NP^2 = 25 + 144 = 169, NP = \mathbf{13 \text{ cm}}$$

### Exercice 2 — Cote

Triangle KLM rectangle en K.  $LM = 17$ ,  $KL = 8$ . **Calculer KM.**

#### Correction

$$KM^2 = 289 - 64 = 225, KM = \mathbf{15 \text{ cm}}$$

### Exercice 3 — Reciproque (oui)

Cotes : 7, 24, 25. **Rectangle ?**

#### Correction

$$25^2 = 625, 7^2 + 24^2 = 49 + 576 = 625. \text{Egal} \Rightarrow \mathbf{oui}$$



## Exercice 4 — Reciproque (non)

Cotes : 3, 5, 7. **Rectangle ?**

### Correction

$7^2 = 49$ ,  $3^2 + 5^2 = 34$ . Different => **non**

## Exercice 5 — Diagonale terrain

Terrain rectangulaire 40 m x 30 m. **Diagonale ?**

### Correction

$d^2 = 1600 + 900 = 2500$ ,  $d = \mathbf{50\ m}$

## Exercice 6 — Ecran TV

Ecran 80 cm x 60 cm. **Diagonale ?**

### Correction

$d^2 = 6400 + 3600 = 10000$ ,  $d = \mathbf{100\ cm}$

**Triplets pythagoriciens** : (3,4,5), (5,12,13), (8,15,17), (7,24,25). Leurs multiples marchent aussi !

### Continue sur [maths-college.fr](https://maths-college.fr)

Cours Pythagore 4eme : [theoreme-de-pythagore-cours-4eme.html](https://maths-college.fr/theoreme-de-pythagore-cours-4eme.html)

Exercices Thales 4eme : [exercices-theoreme-de-thales-4eme.html](https://maths-college.fr/exercices-theoreme-de-thales-4eme.html)

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