Mathématiques FISE 1

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1 Mathématiques

1.1 Blocs de couleurs

Théorème: Théorème de Pythagore (oui)

In a right triangle, the square of the hypotenuse is equal to the sum of the squares of the catheti.

$$a^2 + b^2 = c^2$$

In mathematics, the Pythagorean theorem, also known as Pythagoras' theorem (see theorem 1.1), is a relation in Euclidean geometry among the three sides of a right triangle.

Preuve:

If $x=y=\sqrt{2}$ is an example, then we are done; otherwise $\sqrt{2}^{\sqrt{2}}$ is irrational, in which case taking $x=\sqrt{2}^{\sqrt{2}}$ and $y=\sqrt{2}$ gives us:

$$\left(\sqrt{2}^{\sqrt{2}}\right)^{\sqrt{2}} = \sqrt{2}^{\sqrt{2}\sqrt{2}} = \sqrt{2}^2 = 2.$$

Lemme: Identité de Bézout

Let a and b be nonzero integers and let d be their greatest common divisor. Then there exist integers x and y such that :

$$ax + by = d$$

Définition:

If we want dummy text in our document then we generally search for lorem ipsum text generators and copy-paste those texts/paragraphs in our document.

EXEMPLE:

In LaTeX, we don't need to do such copy and paste thing. LaTeX has different packages which automatically generates dummy text in our document. You can generate them with just a few lines of code.

REMARQUE:

In the example below, lipsum package is used to print dummy text below chapter title. lipsum[2-4] prints lorem ipsum text from paragraph 2 to paragraph 4

Propriété:

Every line in your source code must end with otherwise your algorithm will continue on the same line of text in the output.

```
# libraries:
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt # creating the variables:
x = np.linspace(0,100)
y = x**2 # plotting
plt.plot(x, y, '-b')
```

Important!

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Algorithme 1: An algorithm with caption

Exercice:

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Rappel

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Ordre bien fondé

Un ordre est bien fondé s'il n'existe pas de suite infiniment strictement décroissante, i.e. toute partie non vide de E admet un élément minimal.

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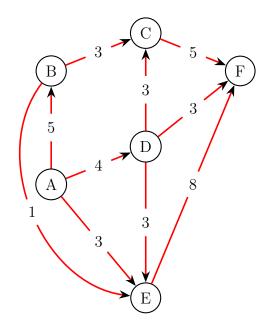


Figure 1.1 - This is a real beautiful figure of a graph

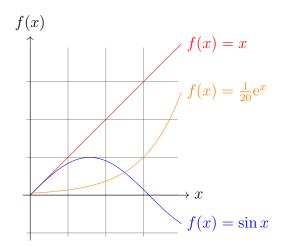


Figure 1.2 — Trigonometric circle

