

Guide to drawing spatial geometry using Google AI Studio

Teachers can immediately utilize Google AI Studio to draw spatial geometry figures using LaTeX text for quick use in their lessons.

Teachers can quickly utilize Google AI Studio to draw geometric figures using LaTeX text for their lessons. Simply provide the required image or input the content directly, and Google AI Studio will generate the geometric figure according to the uploaded data. Below is a guide on how to draw geometric figures using Google AI Studio.

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Step 1:

We access the Google AI Studio interface and then you will be set up to **use the new Gemini 3 Pro Preview model**.

Run settings

< > Get code



Gemini 3.1 Pro Preview

gemini-3.1-pro-preview

Our latest SOTA reasoning model with unprecedented depth and nuance, and powerful multimodal understanding and coding capabilities

System instructions

Optional tone and style instructions for the model

No API Key

Switch to a paid API key to unlock higher quota and more features.

Temperature



1

Media resolution



Thinking level

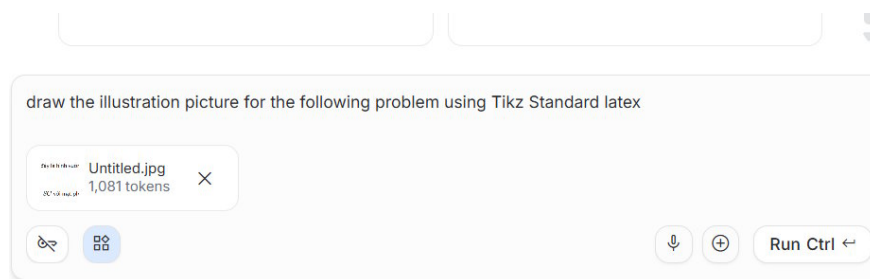


Step 2:

In the chat box, we **can upload the exercise we want to draw a spatial diagram for**, or directly enter the content of the spatial geometry problem.

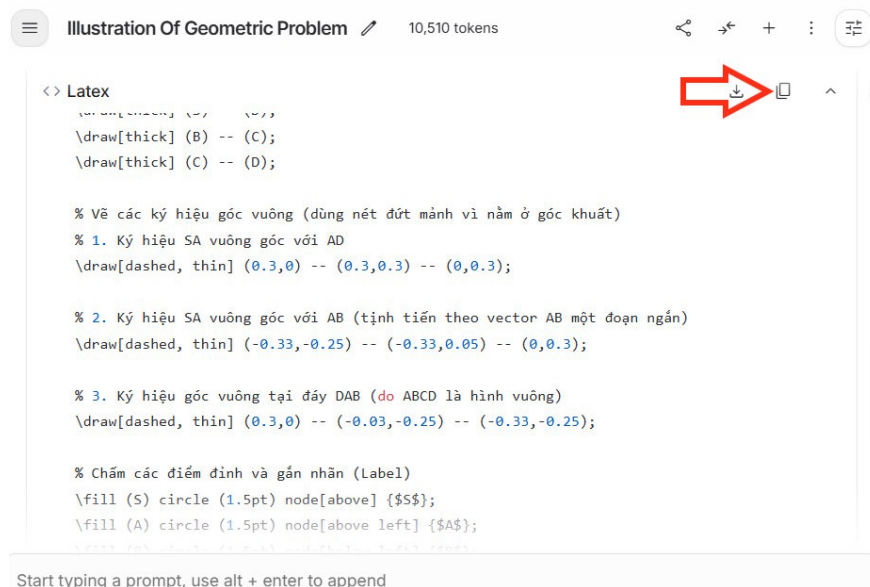
Enter the command below to create a spatial drawing from the image we upload in LaTeX format.

draw the illustration picture for the following problem using Tikz Standard latex



Step 3:

The entire content is displayed in LaTeX format; you need to **copy this entire LaTeX document** to use for drawing spatial geometry.

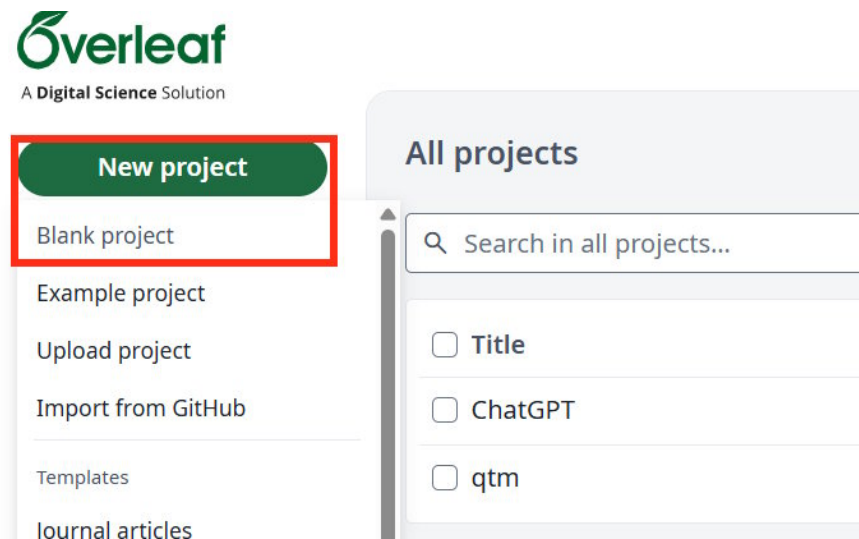


Step 4:

Visit the Overleaf website and create an account as usual. You can find more information on how to use Overleaf at the link below.

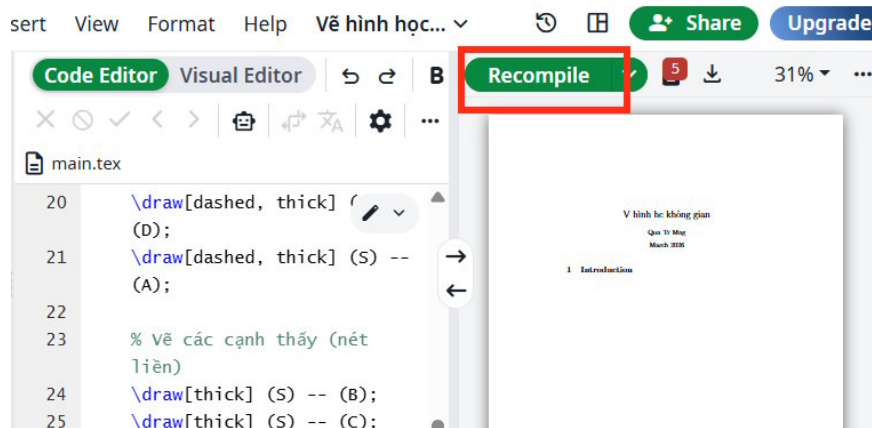
1. 2 ways to preserve formula formatting in ChatGPT

After accessing the Overleaf website, **click on "New project"** and then select **"Completely new project"**. Name this new project to continue.

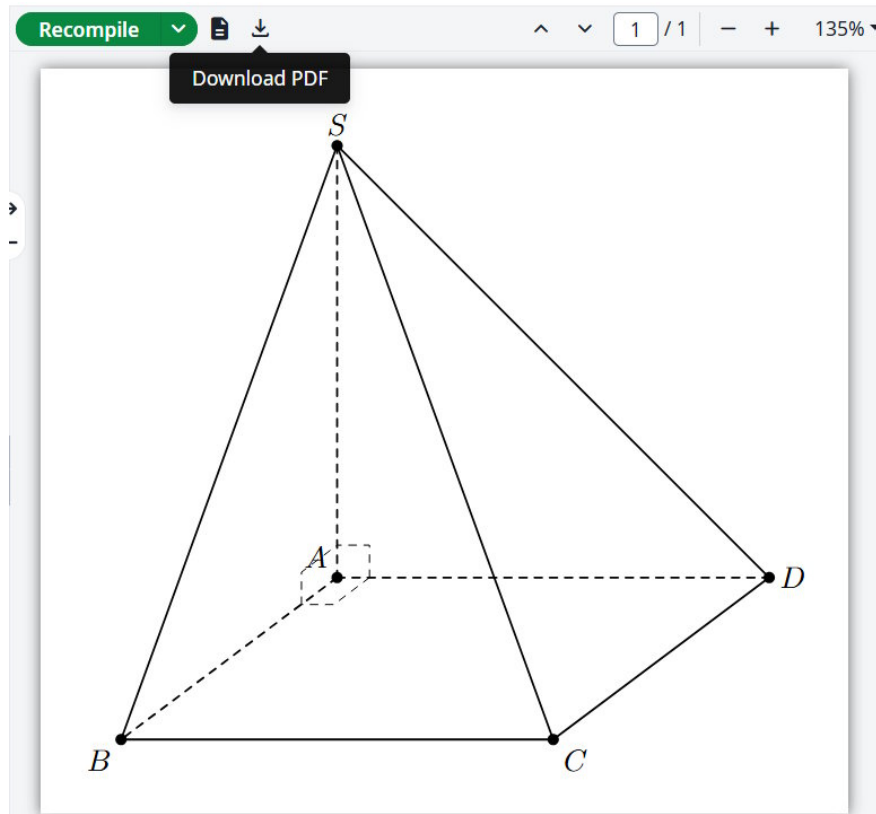


Step 4:

In this new project, delete all existing content, **paste the LaTeX content from Google Studio**, and then **click Recompile** in the toolbar at the top, as shown in the image below.



Immediately afterwards, you will see the result: a geometric drawing of space created from the content you requested in Google AI Studio. Finally, click the **download icon** to download this geometry as a PDF.



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