

# TRANSFORMATION ON COORDINATE PLANE TASK

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### **Coordinate Plane Transformations: A Journey of Shapes and Shadows**

The coordinate plane serves as a grid for understanding geometric transformations. Transformations involve altering the position or shape of a figure without changing its size. One such operation is a translation, which moves a figure from one location to another without rotating or reflecting it. A translation is performed by adding or subtracting values to the x and y coordinates of each point.

For example, consider the triangle with vertices  $(1, 2)$ ,  $(4, 2)$ , and  $(4, 5)$ . If we translate the triangle 3 units to the right and 1 unit up, the new coordinates become  $(4, 3)$ ,  $(7, 3)$ , and  $(7, 6)$ .

Another type of transformation is a rotation, which involves rotating a figure about a fixed point. The rotation is defined by its angle and direction of rotation. For instance, if we rotate the triangle 90 degrees clockwise around the origin, the new coordinates become  $(-2, 1)$ ,  $(-4, 2)$ , and  $(-4, 5)$ .

A reflection is a transformation that "flips" a figure over a line. The line of reflection is the mirror line. If we reflect the triangle over the y-axis, the new coordinates become  $(-1, 2)$ ,  $(-4, 2)$ , and  $(-4, 5)$ .

Finally, a dilation is a transformation that increases or decreases the size of a figure without changing its shape. The dilation is defined by a scale factor, which determines how much the figure is enlarged or reduced. For example, if we dilate the triangle by a factor of 2, the new coordinates become  $(2, 4)$ ,  $(8, 4)$ , and  $(8, 10)$ .

In conclusion, the coordinate plane provides a powerful tool for studying geometric transformations. By understanding the different types of transformations and their effects, we can manipulate shapes and predict their behavior under various operations.

## **Tutorial: Electric Potential Difference**

### **What is electric potential difference?**

Electric potential difference, also known as voltage, is the difference in electric potential between two points in a circuit. Electric potential is a scalar quantity that represents the amount of work per unit charge that is required to move a charge from one point to another. The electric potential difference between two points is measured in volts (V).

### **What causes electric potential difference?**

Electric potential difference is caused by the presence of electric charges. When there are more positive charges than negative charges in a region, the electric potential is positive. When there are more negative charges than positive charges in a region, the electric potential is negative. The electric potential difference between two points is equal to the work per unit charge that is required to move a positive charge from one point to the other.

### **How is electric potential difference measured?**

Electric potential difference is measured using a voltmeter. A voltmeter is a device that measures the difference in electric potential between two points. Voltmeters are typically used to measure the voltage of batteries, power supplies, and other electrical devices.

### **What are the units of electric potential difference?**

The units of electric potential difference are volts (V). One volt is equal to the electric potential difference between two points when one joule of work is required to move one coulomb of charge from one point to the other.

### **What are some examples of electric potential difference?**

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- The voltage of a car battery is typically 12 V.
- The voltage of a household outlet is typically 120 V.
- The voltage of a power line can be as high as 100,000 V.

## **Un Chien Andalou: A Surrealist Masterpiece with Enigmatic Imagery**

**What is Un Chien Andalou?** Un Chien Andalou is a seminal 1929 French short film by Luis Buñuel and Salvador Dalí. It is considered one of the most influential works of surrealist cinema, known for its dreamlike, disjointed narrative and disturbing imagery.

**What is the Meaning of the Title?** The title literally translates to "An Andalusian Dog" in English. However, the meaning of the title remains enigmatic and open to interpretation. Some suggest it refers to a pet dog that was killed for the film's opening scene, while others believe it is a metaphor for the irrationality and brutality depicted in the story.

**What is the Narrative of the Film?** Un Chien Andalou lacks a traditional narrative structure and consists of a series of seemingly unrelated scenes. It begins with an unconventional introduction, featuring a close-up of a woman's eye being sliced open by a razor blade. The scenes that follow are equally bizarre and disconnected, involving a man with a rope and a woman's hand crawling on the ground.

**What are the Key Themes of the Film?** Un Chien Andalou explores themes of sexual repression, violence, and the unconscious mind. It subverts conventional filmmaking practices, employing techniques such as cutting, dissolves, and double exposures to create a dreamlike atmosphere that blurs the line between reality and fantasy.

**What is the Legacy of Un Chien Andalou?** Un Chien Andalou has been lauded as a groundbreaking and influential work in surrealist cinema. Its unconventional approach and disturbing imagery have inspired countless filmmakers and artists. It continues to provoke discussion and debate about the nature of reality, the subconscious, and the role of art in society.

## **WhatsApp for itel 1353: Frequently Asked Questions**

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**Question: Can I use WhatsApp on my itel 1353 phone?** Answer: Yes, you can use WhatsApp on your itel 1353 phone. WhatsApp is a cross-platform messaging app that is compatible with a wide range of mobile operating systems, including the Android OS that is used on the itel 1353.

**Question: How do I install WhatsApp on my itel 1353?** Answer: To install WhatsApp on your itel 1353, follow these steps:

1. Open the Google Play Store app on your phone.
2. Search for "WhatsApp" and tap on the official WhatsApp app.
3. Tap on the "Install" button.
4. Once the installation is complete, tap on the "Open" button to launch WhatsApp.

**Question: How do I sign up for WhatsApp on my itel 1353?** Answer: To sign up for WhatsApp on your itel 1353, follow these steps:

1. Open the WhatsApp app on your phone.
2. Tap on the "Agree and Continue" button.
3. Enter your phone number in the field provided.
4. You will receive a six-digit verification code via SMS. Enter this code in the field provided.
5. Once your phone number is verified, tap on the "Continue" button to start using WhatsApp.

**Question: How do I use WhatsApp to send messages and make calls?** Answer: To send messages on WhatsApp, tap on the "Chats" tab at the bottom of the screen. Then, tap on the "New Chat" button and select the contact you want to message. To make a call, tap on the "Calls" tab at the bottom of the screen. Then, tap on the "New Call" button and select the contact you want to call.

**Question: Can I use WhatsApp to send photos, videos, and other files?** Answer: Yes, you can use WhatsApp to send photos, videos, and other files. To send a photo or video, tap on the "+" button in the chat window and select "Photo/Video." You can also select other files, such as documents and audio files, by tapping on the "Document" or "Audio" button in the chat window.

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