1. What are the advantages of the DDA algorithm?

Advantage:

1. It is a faster method than method of using direct use of line equation.

2. This method does not use multiplication theorem.

3. It allows us to detect the change in the value of x and y, so plotting of same point twice is not possible.

4. This method gives overflow indication when a point is repositioned.

5. It is an easy method because each step involves just two additions.

**2. Types of Transformations**

**1. Rotation: rotating an object about a fixed point without changing its size or shape**

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**2. Translation: moving an object in space without changing its size, shape or orientation**

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**3. Dilation: expanding or contracting an object without changing its shape or orientation**

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**4. Reflection: flipping an object across a line without changing its size or shape**