

Riviera International Academy

Assignment-2077

(Shrawan 18, 2077, Sunday)

Class: Eight

Subject- Opt. Mathematics

Find the angle of rotation and its direction when the objects and their images are as follows.

i) $A(3, 5) \rightarrow A'(5, -3)$, ii) $B(8, -3) \rightarrow B'(-8, 3)$

iii) $C(8, -6) \rightarrow C'(-6, -8)$ iv) $D(-5, -4) \rightarrow D'(4, -5)$

If $A(4, -1)$, $B(2, 2)$ and $C(6, 1)$ are the vertices of $\triangle ABC$, then find the image of $\triangle ABC$ after rotation through positive quarter turn about the centre at origin. Also show $\triangle ABC$ and its image on the same graph paper.

The image of the point A after rotation through $+90^\circ$ about the centre at origin is $A'(7, 6)$. Then find the coordinates of A.

The image of the point B after rotation through negative quarter turn about the centre at origin is $B'(-8, 7)$. Then

- Find the coordinates of B.
- Find the image of B when the rotation takes place in half turn about the centre at origin.

Subject- Social Studies

Point out five major causes of conflict.

Subject-English

A. You might have met many people in your life. Recall one of your relatives whom you like most. Who is he/she? Can you describe the person?

B.

1. Study the following text about a boy.

The boy who is reading a book is my brother. He is 17 years old. He is hardworking. He looks funny. He usually wears a shirt, pants and a cap. He likes to play football and cricket. He has a small mole on his right cheek.

2. Can you describe a person in a similar way? Now describe the person using the clues given in the box.

A lady in a sari - my sister - doctor- works in her clinic- 25 years old – usually carries a bag and an umbrella - likes singing and dancing.

Subject- Science

1. Write the molecular formula of the following.

i. Aluminium oxide

ii. Calcium hydroxide

iii. Magnesium silicate

iv. Nitrogen oxide

2. How does an atom bear positive charge? Explain.

3. What is positive radical? Write any two differences between positive and negative radicals.

4. Why should we balance chemical reaction? Write the balance chemical reaction of the following:

a. Calcium hydroxide + Carbon dioxide \longrightarrow Calcium carbonate + Water

b. Magnesium + Nitrogen \longrightarrow Magnesium Nitride

The End.