

(ii) Sh 166 **48 calls** (1mks)

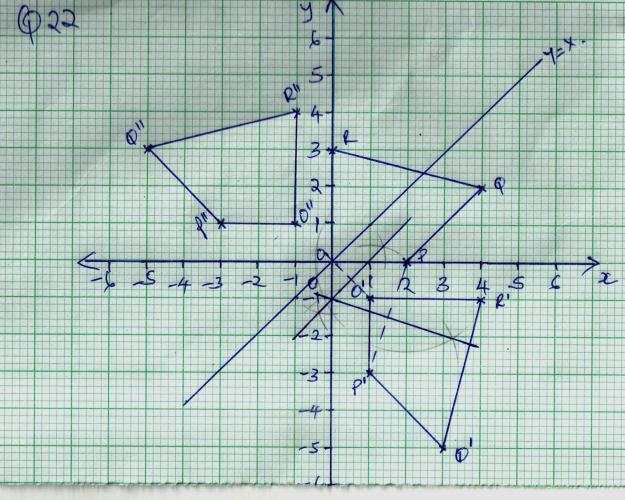
(b ) What is the standing charge? **Sh 70** (1mk)

1. The vertices of quadrilateral OPQR are O (0, 0), P (2, 0),Q(4,2) and R (0,3). The vertices of its image under a rotation are O’ (1, -1), P’ (1,-3), Q’ (3, - 5) and R’ (4, - 1).

(a) (i) On the grid provided, draw OPQR and its image O’P’Q’R’. (2 marks)

**Rectangle OPQR correctly drawn B1**

**Rectangle O’P’Q’R’ correctly drawn B1**



(ii) By construction, determine the centre and angle of rotation. (3 marks)

**Construction of any two correct perpendicular bisectors……..B1**

**Cecntre (0, -1)**

**Angle of rotation -90˚ or +270˚**(b) On the same grid as (a) (i) above, draw O” P”Q”R”, the image of O’P’Q’R’ under a reflection in the line y = x. (2 marks)

**Line y = x. correctly drawn B1**

**O” P”Q”R” correctly drawn B1**

(c) From the quadrilaterals drawn, state the pairs that are:

(i) Directly congruent; (1 mark)

**OPQR and O’P’Q’R’ B1**

1. Oppositely congruent. (2 marks)

**O’P’Q’R’ and O’P’Q’R’ B1**

**OPQR and O” P”Q”R” B1**