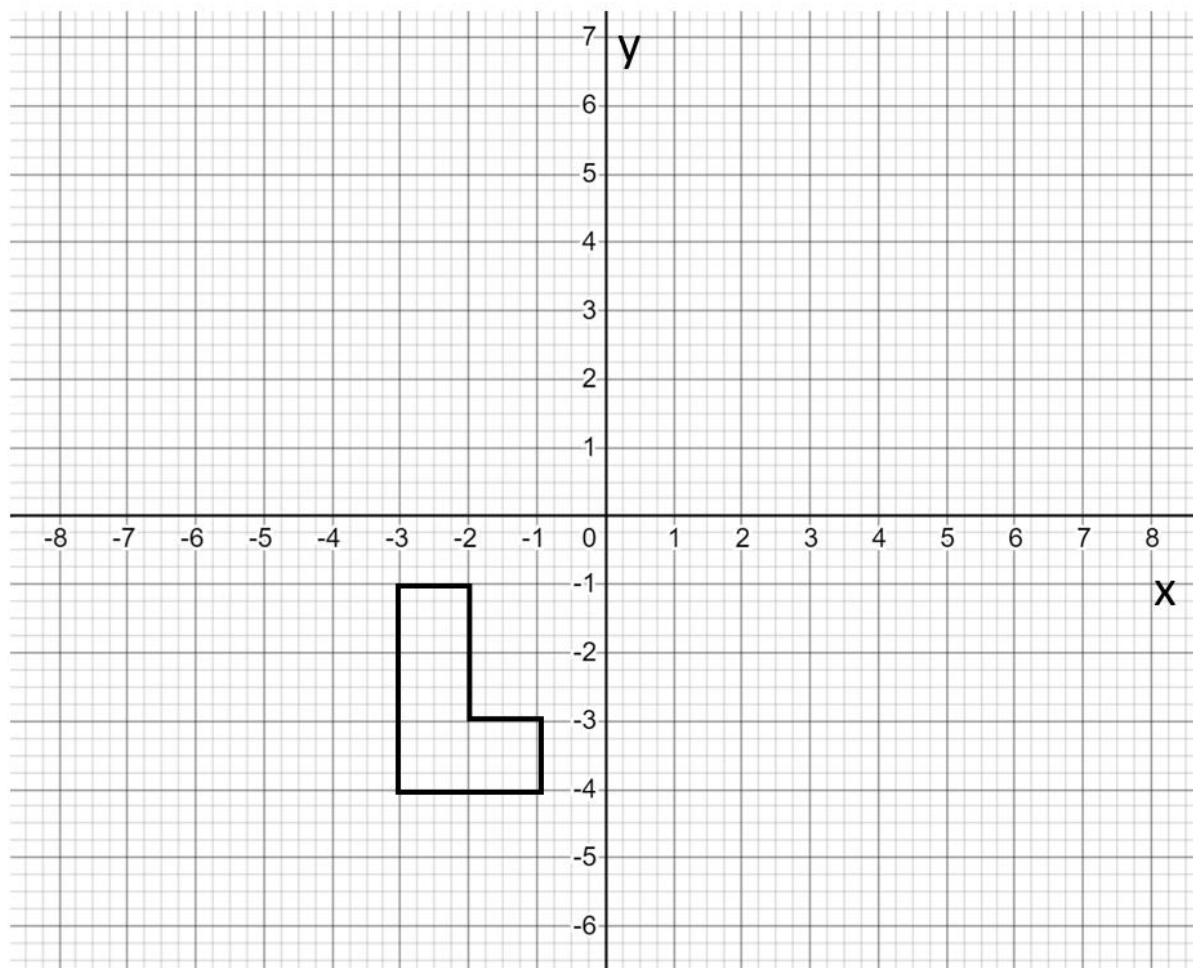




Negative Scale Factor Enlargements Exam Practice

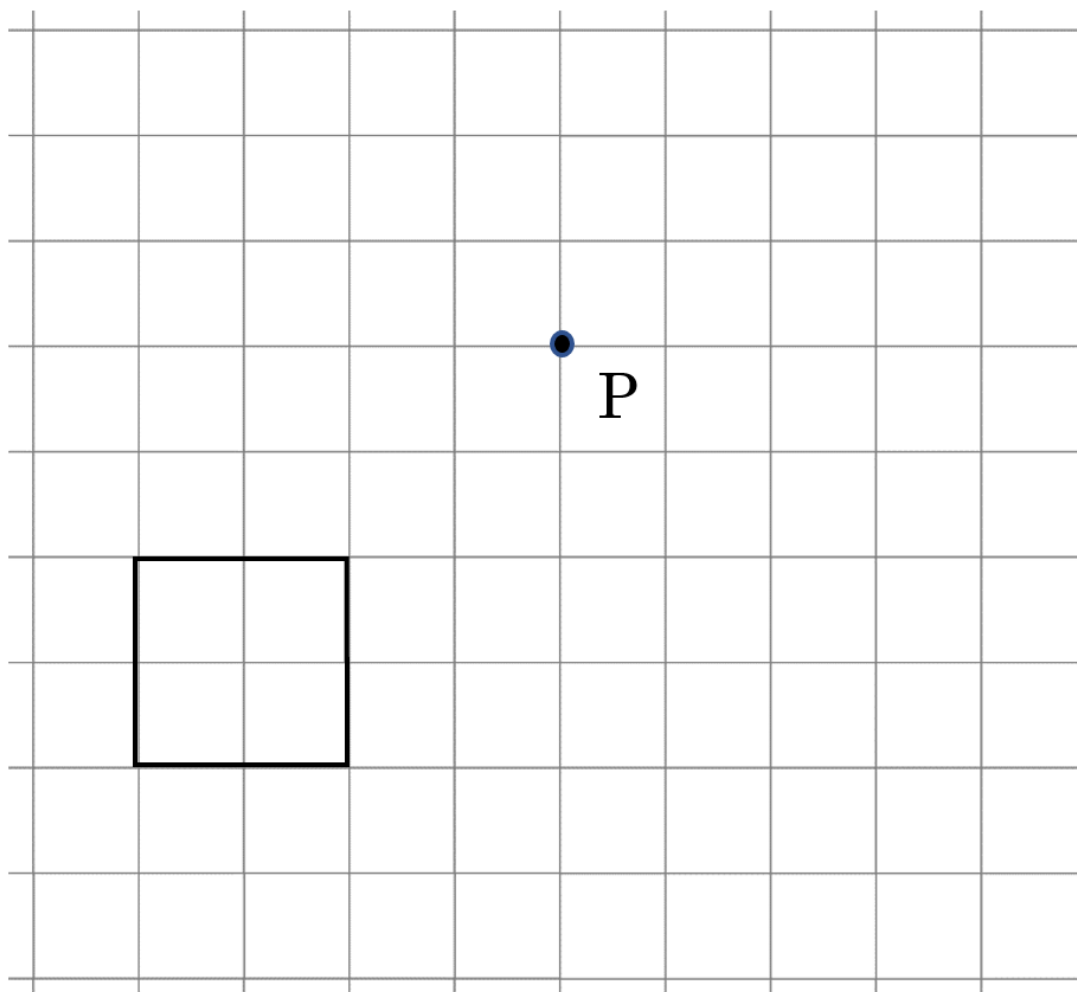
Q1. Draw an enlargement of the shape shown on the grid using a scale factor of -2 about $(-1, -1)$



(2 marks)



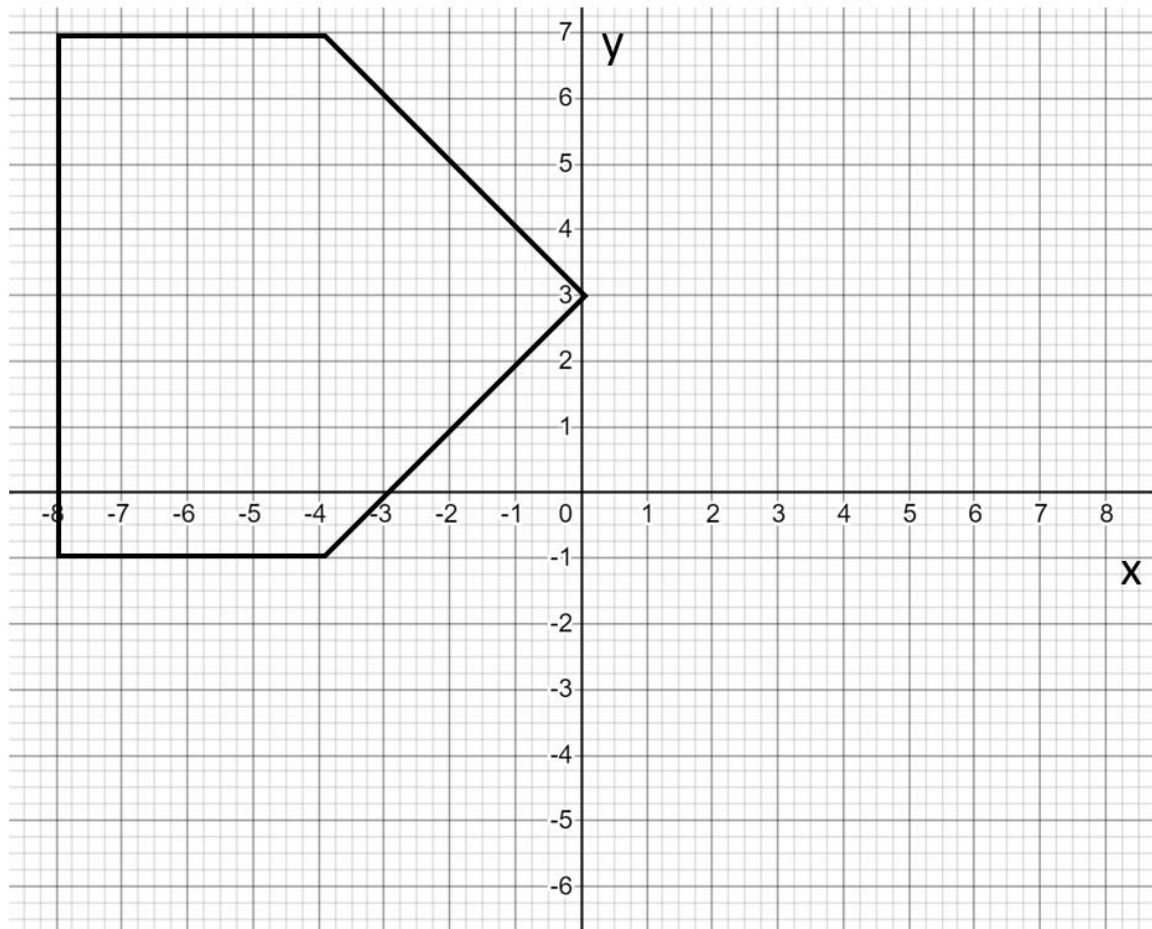
Q2. Draw an enlargement of the shape shown on the grid using a scale factor of $\frac{1}{2}$ with centre point P.



(2 marks)



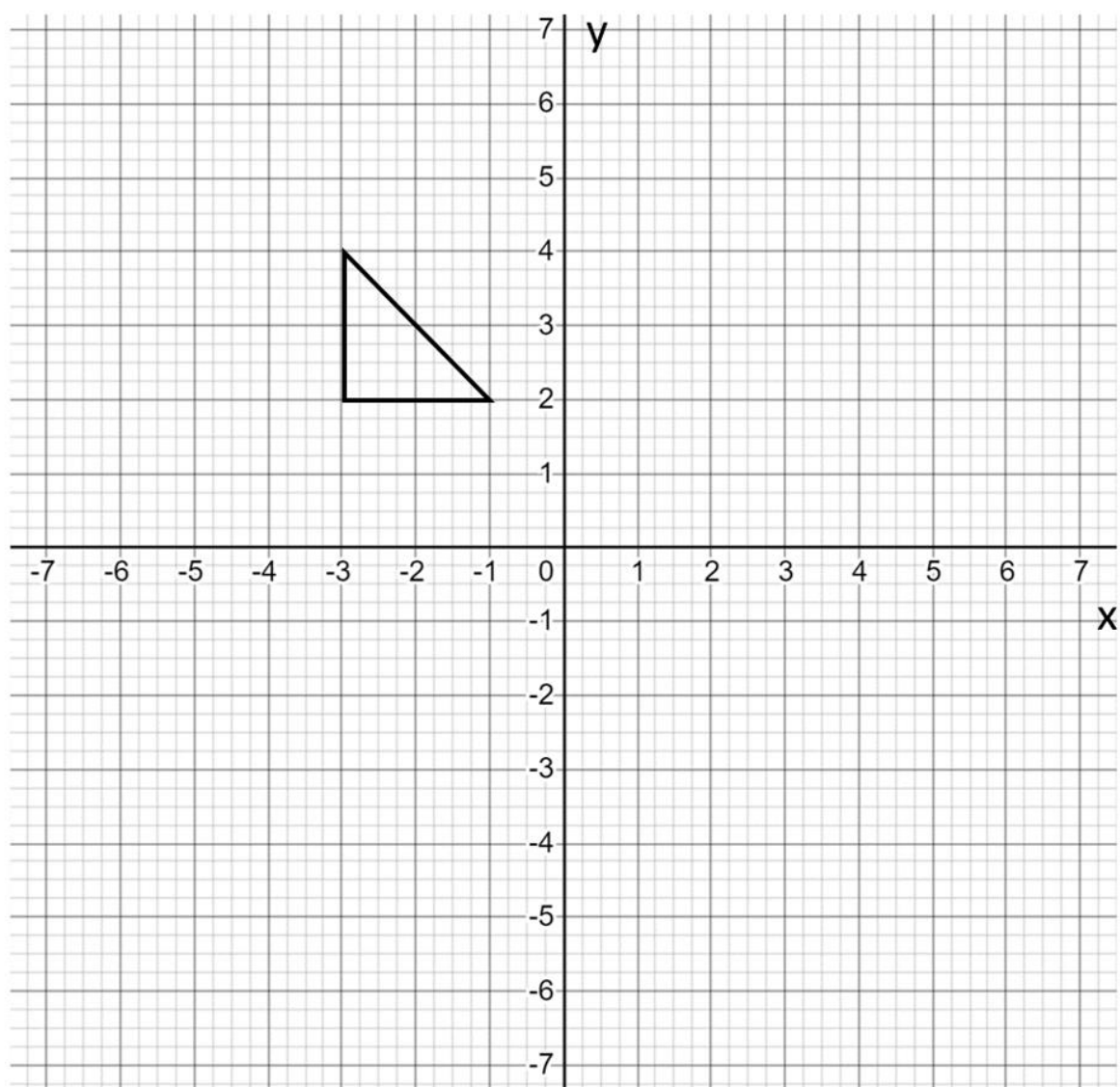
Q3. Enlarge the shape shown by scale factor $\frac{1}{4}$ about the point (4,3).



(2 marks)



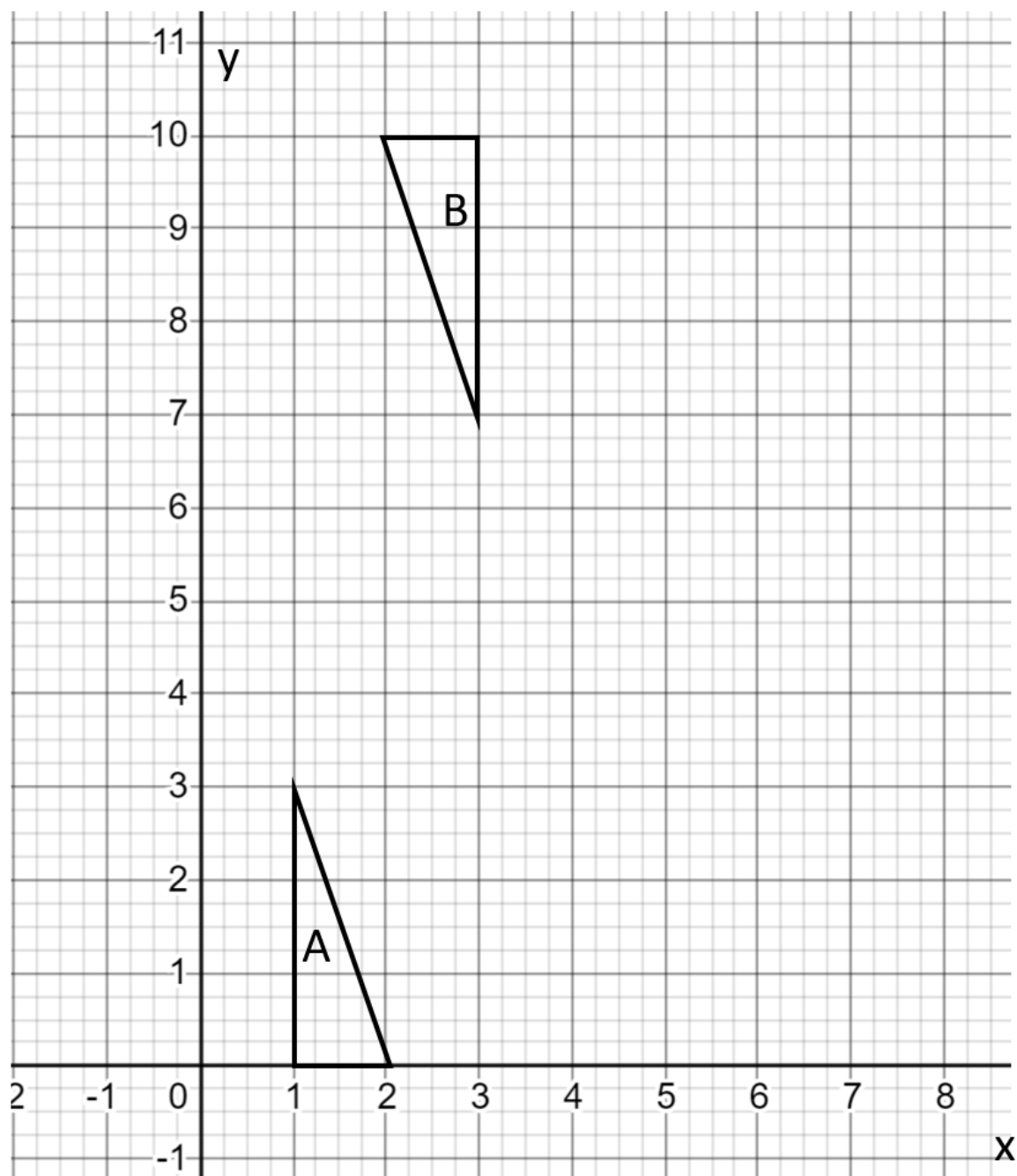
Q4. Enlarge the shape shown by scale factor -1.5 about the point $(0,0)$.



(2 marks)



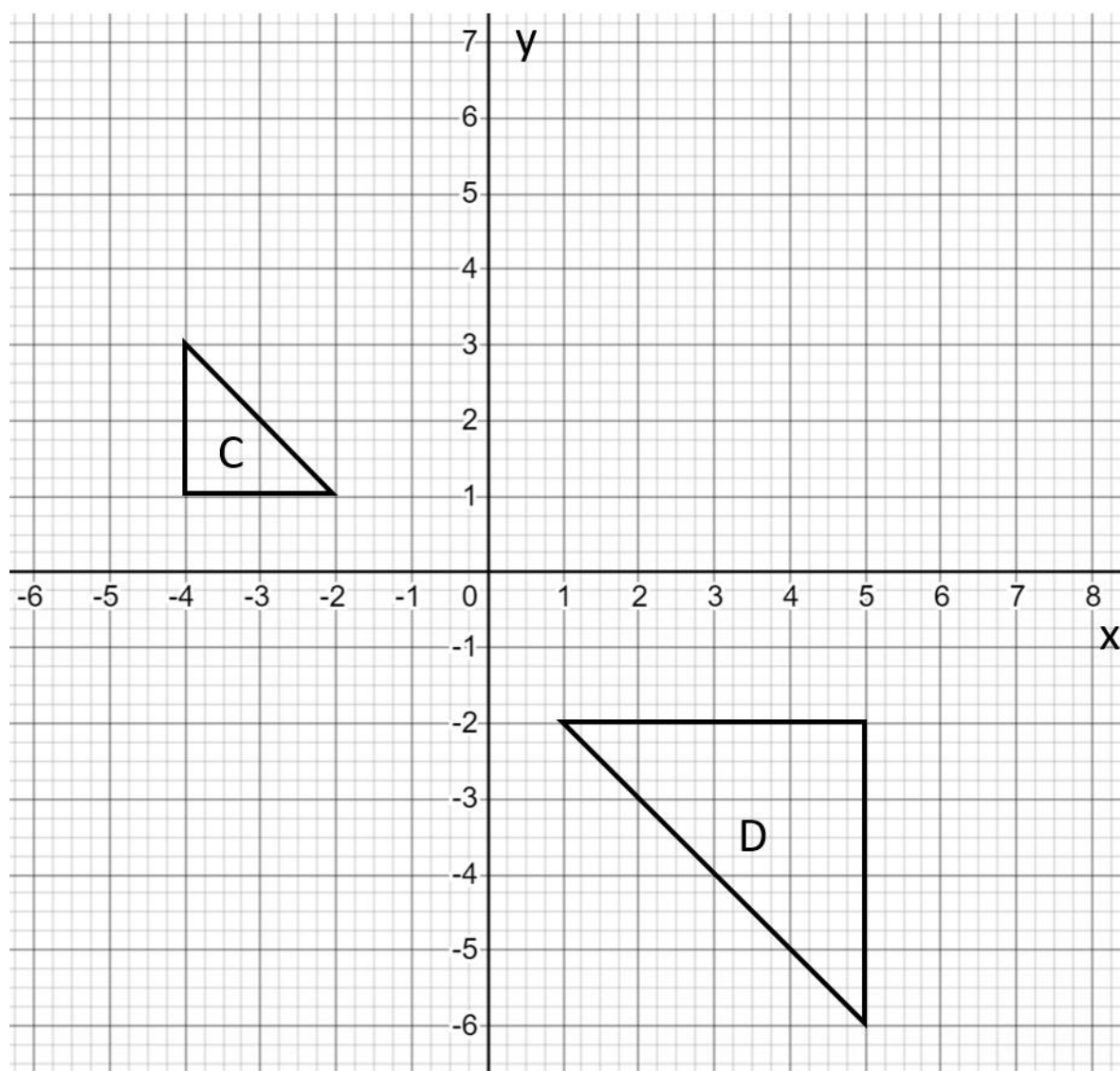
Q5. Describe fully the transformation which takes shape A to B.



(2 marks)



Q6. Describe fully the transformation which takes shape D to C.



(3 marks)



Problem Questions:

Q7. A shape ABC is to be enlarged about the point (4,10) using a scale factor of -2 to form the shape PQR.
If A is the point (5, 7), work out the co-ordinates of point P.

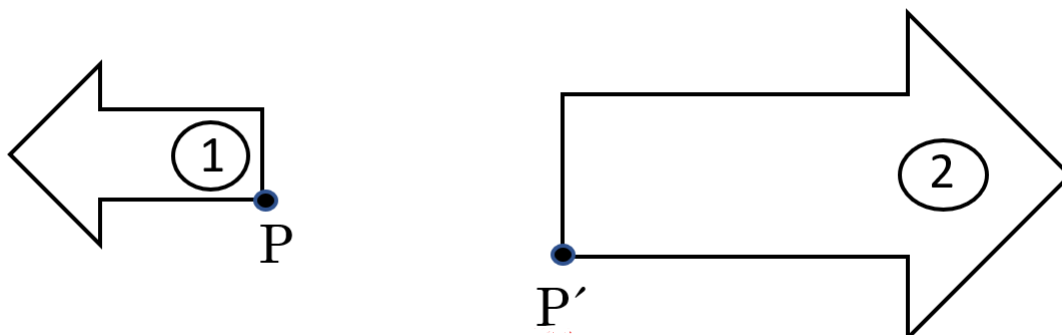
Answer: _____
(2 marks)

Q8. A shape DEF is to be enlarged about the point (-3,4) using a scale factor n to form the shape RST.
If D is the point (-7, 6), and R is the point (7,-1) work out the value of n .

Answer: _____
(2 marks)



Q9. Below is a sketch of an enlargement. Shape 1 is an enlargement of shape 2, by scale factor $-\frac{1}{3}$. Given that $P = (2, -3)$ and $P' = (14, 5)$, work out the co-ordinates of the centre of enlargement.



Answer: _____

(3 marks)