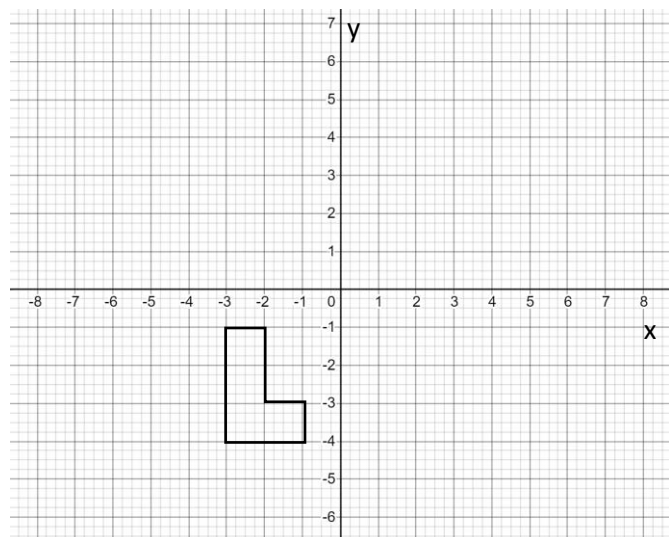


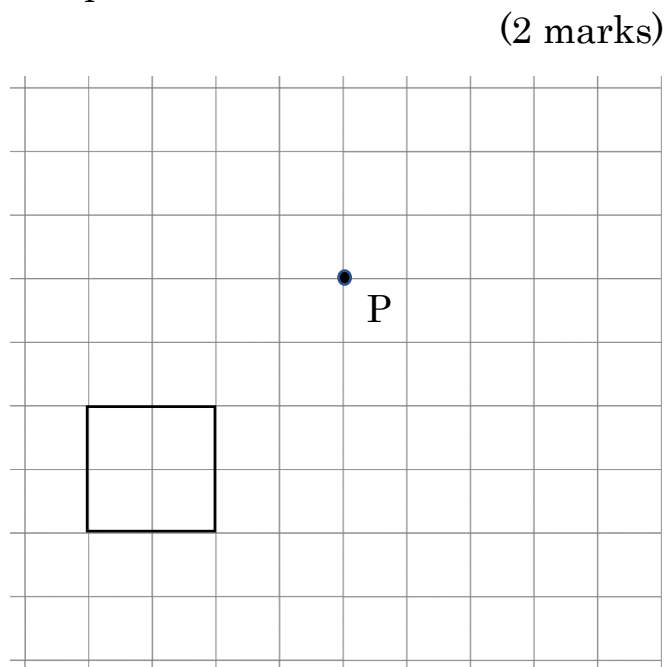


Negative Scale Factor Enlargements Exam Practice

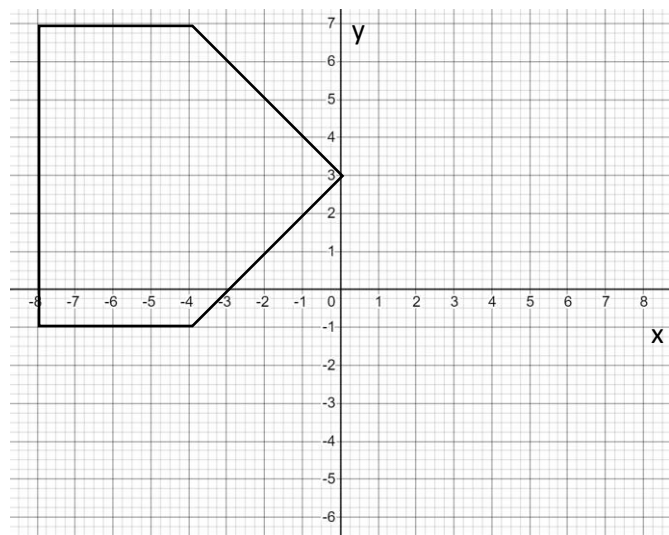
Q1. Draw an enlargement of the shape shown on the grid using a scale factor of -2 about $(0,0)$
(2 marks)



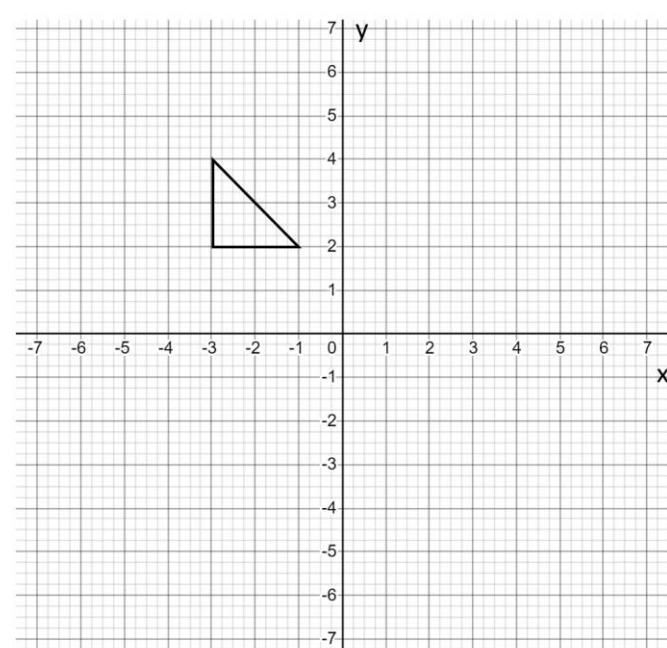
Q2. Draw an enlargement of the shape shown on the grid using a scale factor of $-\frac{1}{2}$ with centre point P
(2 marks)



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

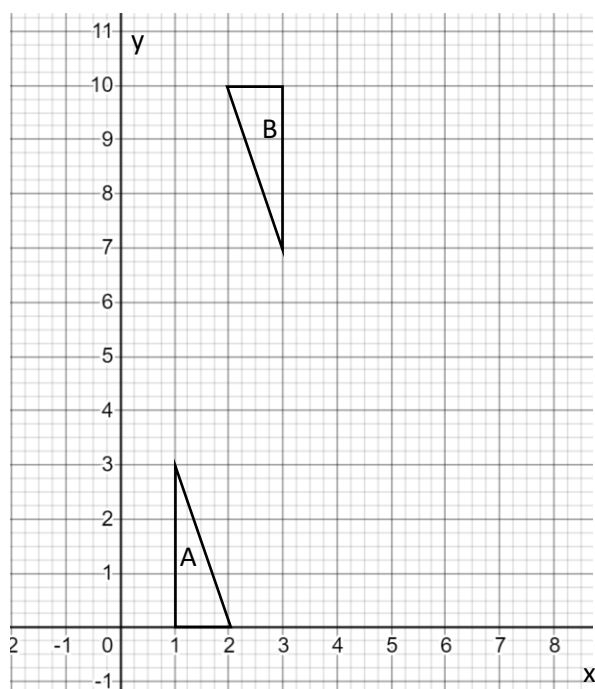


Q4. Enlarge the shape shown by scale factor -1.5 about the point $(0,0)$.
(2 marks)

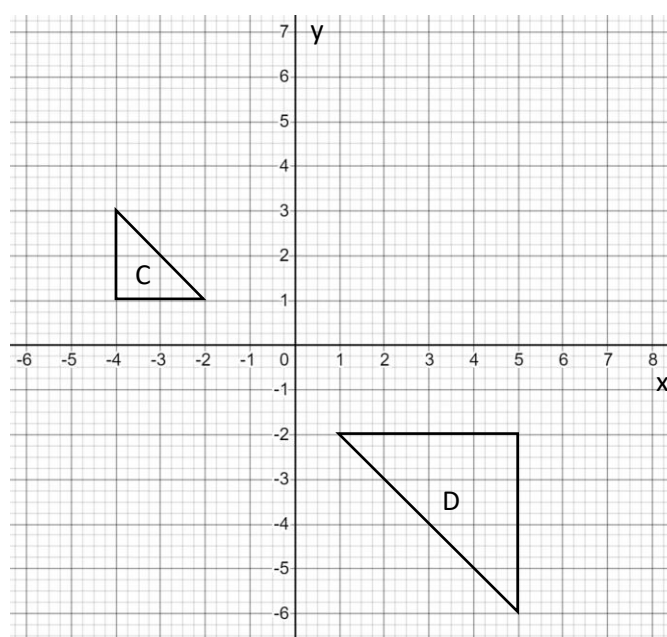




Q5. Describe fully the transformation which takes shape A to B.
(3 marks)



Q6. Describe fully the transformation which takes shape D to C.
(3 marks)



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.

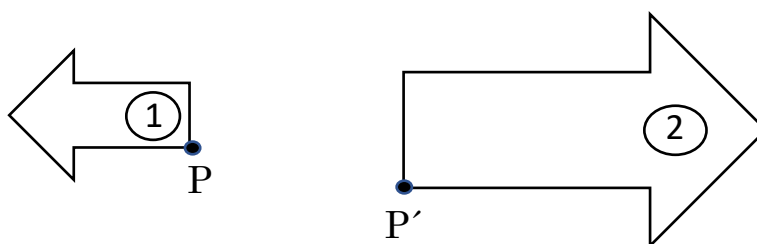
(2 marks)

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 .

(2 marks)

Q9. Below is a sketch of an enlargement. Shape 2 is an enlargement of shape 1, by scale factor $-1/3$. Given that $P = (2, -3)$ and $P' = (14, 6)$, work out the co-ordinates of the centre of enlargement.



(3 marks)