

## NEGATIVE SCALE FACTORS - PRACTICE QUESTIONS

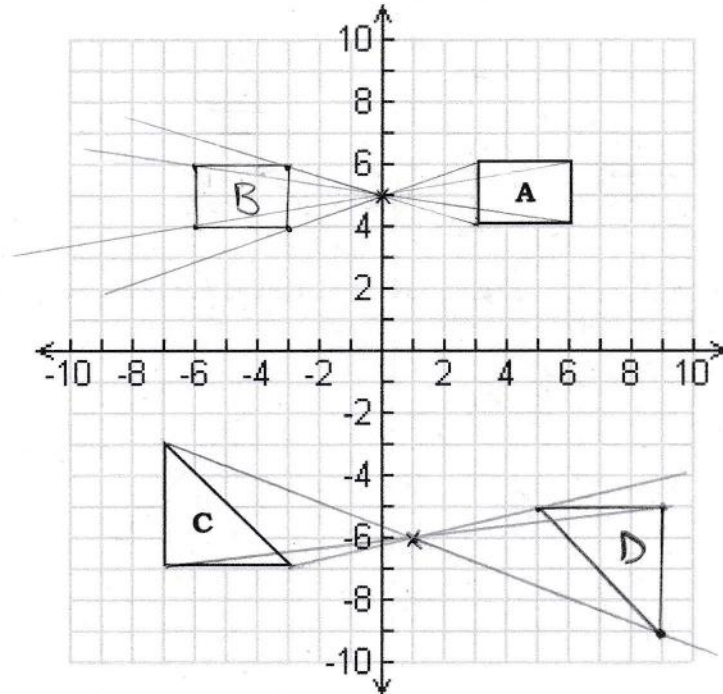


metatutor

1.

(a) Enlarge Shape A with scale factor  $-1$  using  $(0,5)$  as the centre of enlargement and label this Shape B.

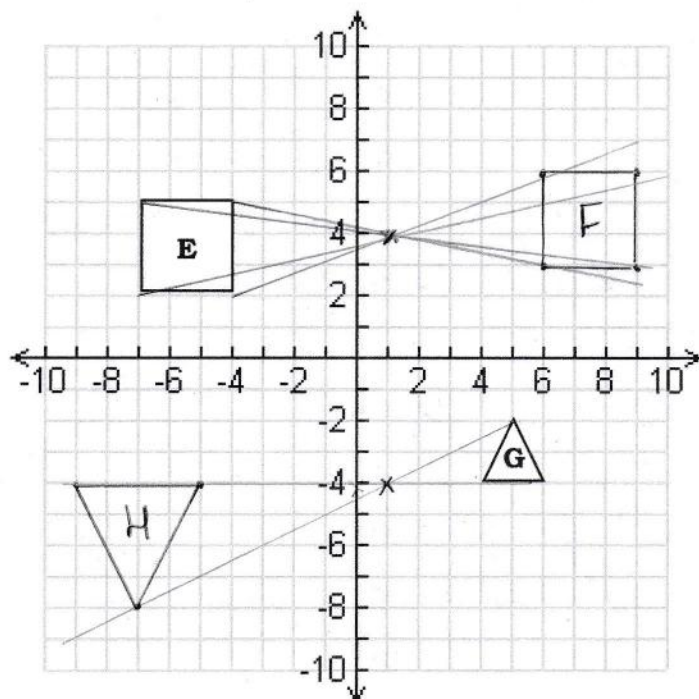
(b) Enlarge Shape C with scale factor  $-1$  using  $(1,-6)$  as the centre of enlargement and label this Shape D.



2.

(a) Enlarge Shape E with scale factor  $-1$  using  $(1,4)$  as the centre of enlargement and label this Shape F.

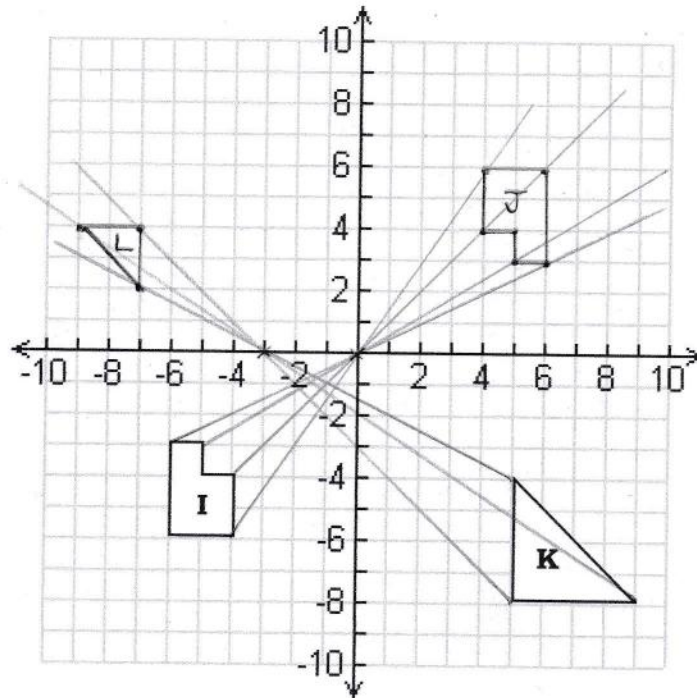
(b) Enlarge Shape G with scale factor  $-2$  using  $(0,-4)$  as the centre of enlargement and label this Shape H.



3.

(a) Enlarge Shape I with scale factor  $-1$  using  $(0,0)$  as the centre of enlargement and label this Shape J.

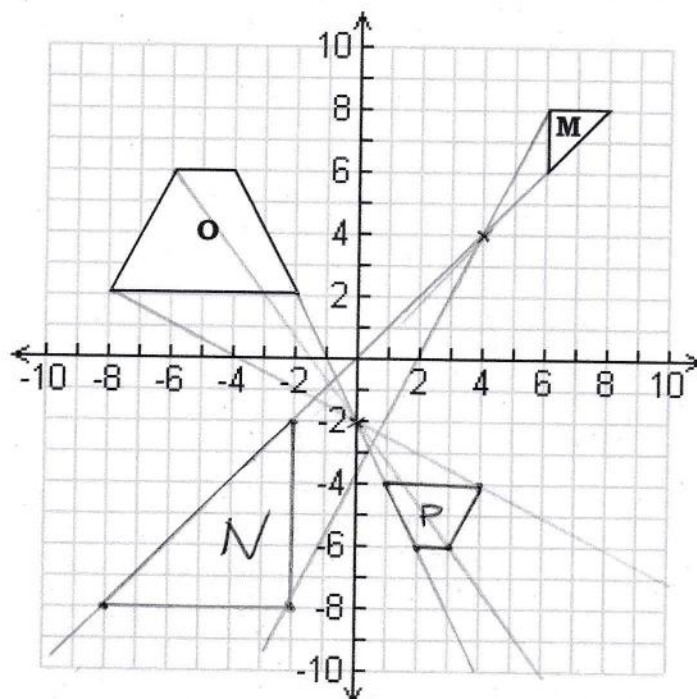
(b) Enlarge Shape K with scale factor  $-0.5$  using  $(-3,0)$  as the centre of enlargement and label this Shape L.



4.

(a) Enlarge Shape M with scale factor  $-3$  using  $(4,4)$  as the centre of enlargement and label this Shape N.

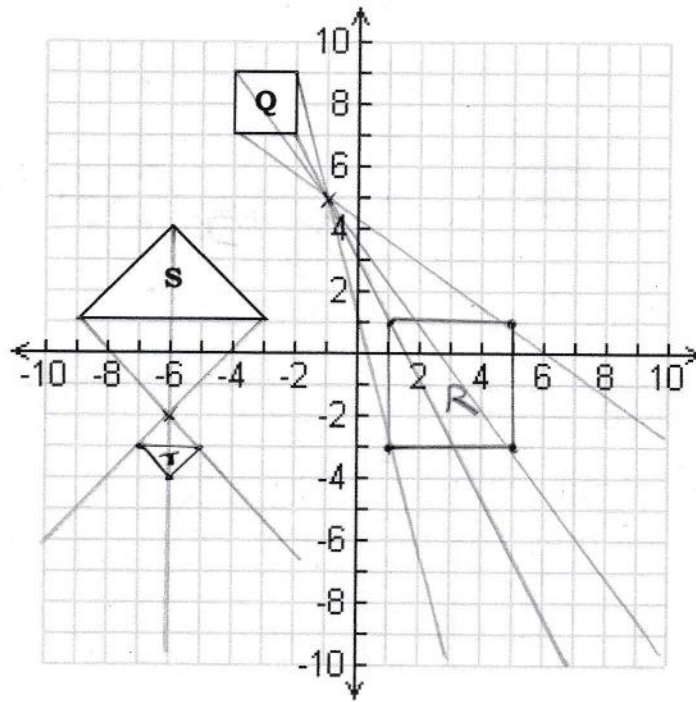
(b) Enlarge Shape O with scale factor  $-0.5$  using  $(0,-2)$  as the centre of enlargement and label this Shape P.



5.

(a) Enlarge Shape Q with scale factor  $-2$  using  $(-1, 5)$  as the centre of enlargement and label this Shape R.

(b) Enlarge Shape S with scale factor  $-\frac{1}{3}$  using  $(-6, -2)$  as the centre of enlargement and label this Shape T.



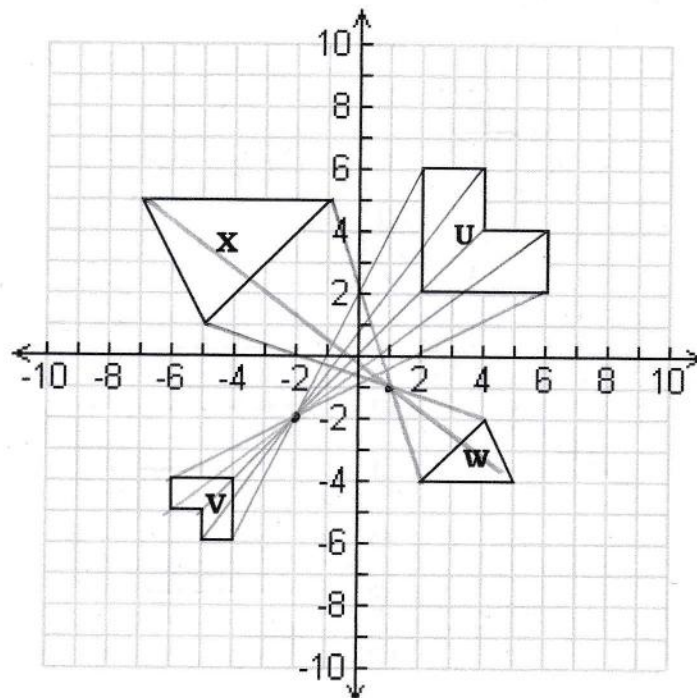
6.

(a) Describe fully the single transformation that transforms Shape U into Shape V.

enlargement scale factor  $-0.5$  centre  $(-2, -2)$

(b) Describe fully the single transformation that transforms Shape W into Shape X.

enlargement scale factor  $-2$  centre  $(1, -1)$

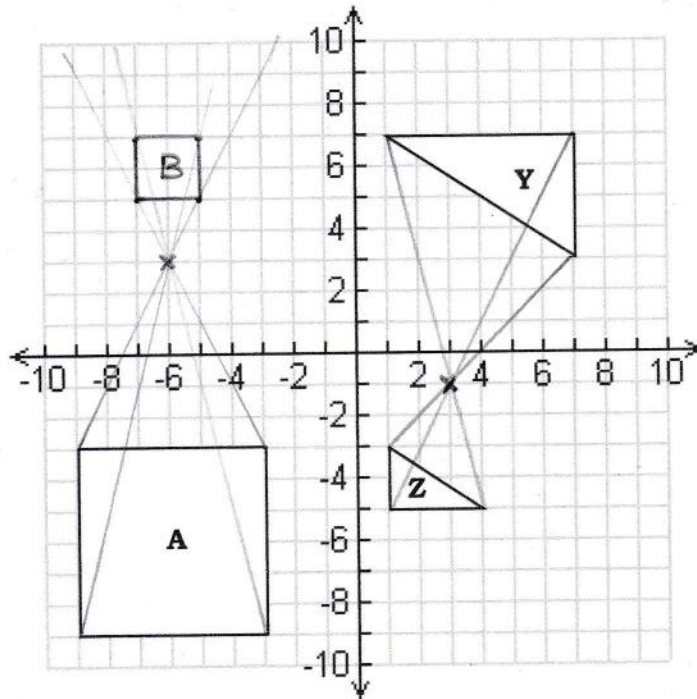


7.

(a) Enlarge Shape A with scale factor  $-\frac{1}{3}$  using  $(-6,3)$  as the centre of enlargement and label this Shape B.

(b) Describe fully the single transformation that transforms Shape Z into Shape Y.

enlargement scale factor  $-2$  centre  $(3,-1)$



8.

(a) Enlarge Shape C with scale factor  $-1.5$  using  $(1,2)$  as the centre of enlargement and label this Shape D.

(b) Describe fully the single transformation that transforms Shape E into Shape F.

enlargement scale factor  $-0.5$  centre  $(-1,2)$

