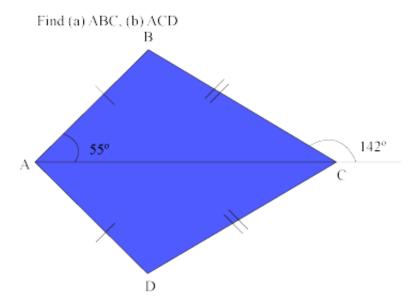
#### **Eighth Grade - Geometry**

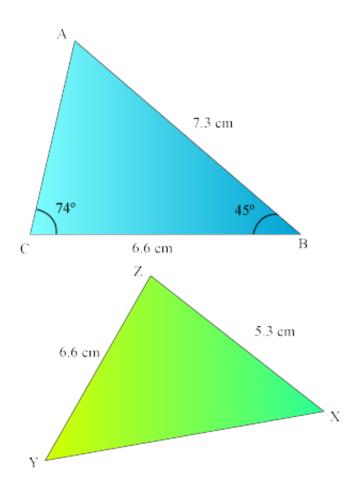
1) Given that the two triangles ABC and ADC below are congruent. Find



- a) 81°, b) 32°
- a) 84°, b) 37
- a) 87°, b) 38°
- a) 82°, b) 35°

2) Given that ?ABC is congruent to ?XYZ as shown below (a) find the length of side XY, (b) find ?YXZ.

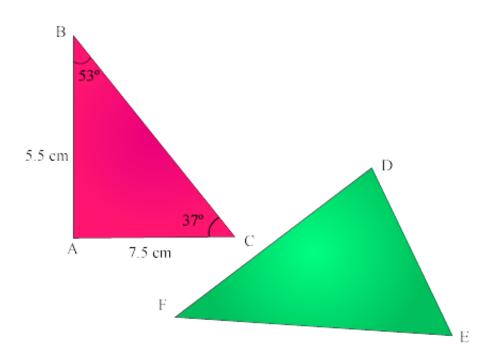
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- a) 6.4 cm, b) 71°
- a) 8.3 cm, b) 81°
- a) 7.4 cm, b) 51°
- a) 7.3 cm, b) 61°

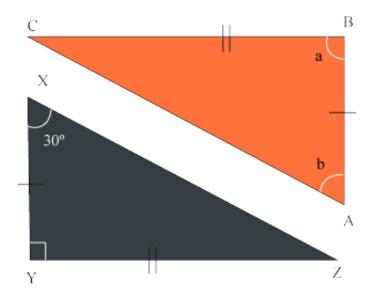
3) Given below ?ABC is congruent to ?DEF, find (a) the length of side DF, (b) ?EDF

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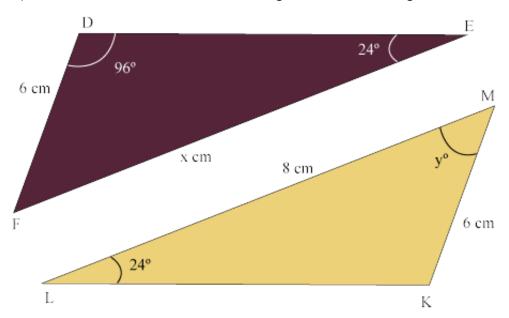
- a) 7.5 cm, b)90°
- a) 6.5 cm, b)60°
- a) 5.3 cm, b)70°
- a) 8.2 cm, b)80°

#### 4) ?XYZ is congruent to ?ABC. Find ?a and?b



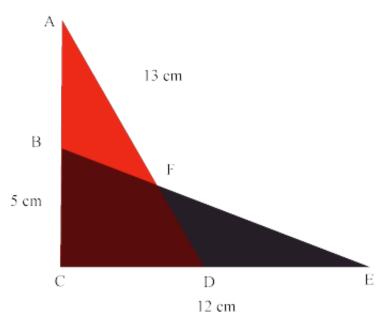
- $?a = 70^{\circ} \& ?b = 10^{\circ}$
- $?a = 50^{\circ} \& ?b = 40$
- $?a = 60^{\circ} \& ?b = 20^{\circ}$
- $?a = 90^{\circ} \& ?b = 30^{\circ}$

5) Given that ?DEF and ?KLM in the diagram below are congruent, find the values ofx and y.



- x = 6cm, y = 50°
- x = 7cm, y = 10°
- x = 8cm, y = 60°
- x = 7cm, y = 70°

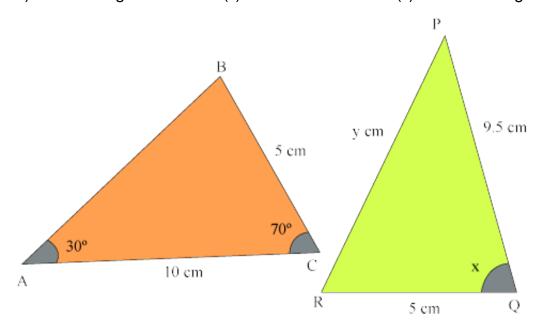
6) ?ACD is congruent to ?ECB.CE = 12 cm, AD = 13 cm and BC = 5 cm. Find the length of AB



• 8 cm

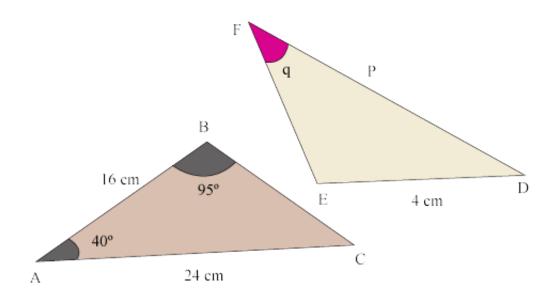
- 7 cm
- 1 cm
- 3 cm

7) ?ABC is congruent to ?PQR (a) What is the value of x? (b) What is the length of y?



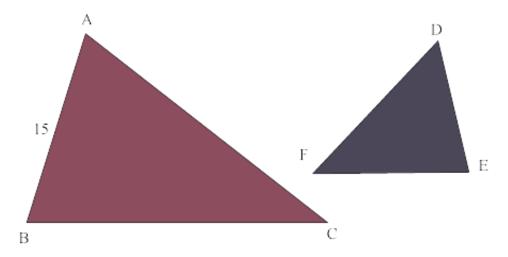
- a) 80°, b) 10 cm
- a) 10°, b) 60 cm
- a) 60°, b) 80 cm
- a) 70°, b) 20 cm

8) ?ABC is similar to ?DEF. Find, (a) The angle q. (b) The length of p.



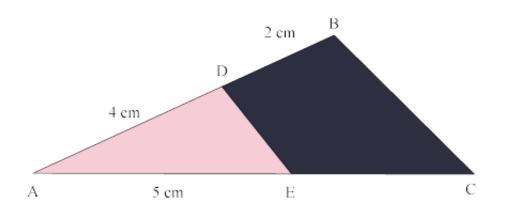
- a) 45°, b) 6 cm
- a) 46°, b) 2 cm
- a) 47°, b) 5 cm
- a) 41°, b) 3 cm

9) ?ABC is similar to ?DEF. Given that AB = 15 cm and DE = 5 cm, find AC/DF in its simplest form



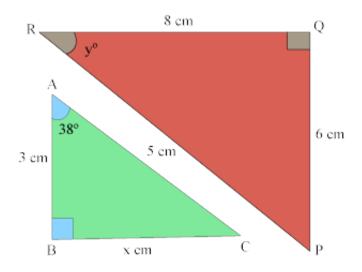
- 3
- 7
- 2
- 8

10) Given that ?ABC and ?ADE are similar triangles, find the length of EC



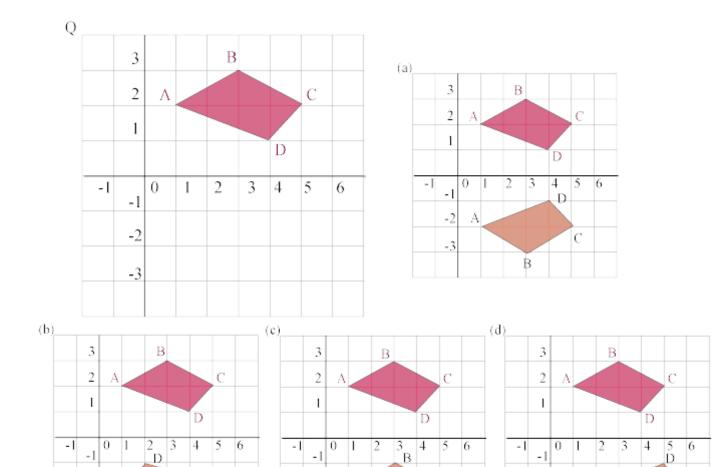
- 6.5 cm
- 5.5 cm
- 4.5 cm
- 2.5 cm

11) Given ?ABC is similar to ?PQR. Find the values of x and y.



- x = 8cm, y = 12°
- x = 4cm, y = 52°
- x = 6cm, y = 32°
- x = 5cm, y = 42°

12) Graph the image of the figure using the transformation given: Reflection about x-axis:



• b

-2

-3

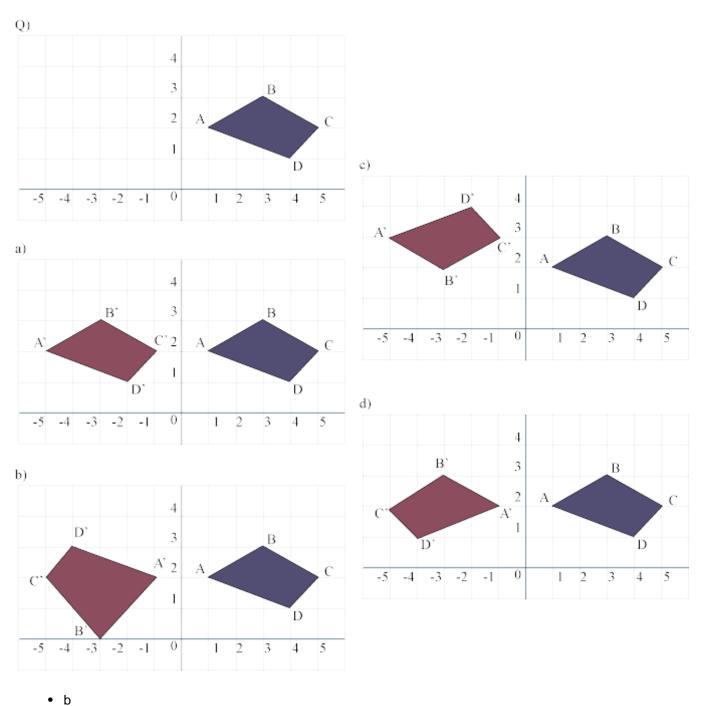
- d
- C
- a

13) Graph the image of the figure using the transformation given: Reflection about y-axis:

А

В

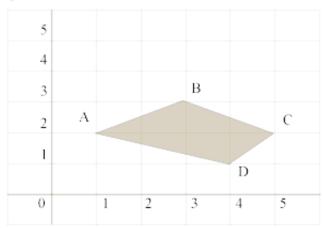
В



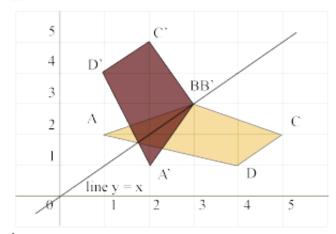
- С
- d
- а

14) Graph the image of the figure using the transformation given: Reflection about y = x

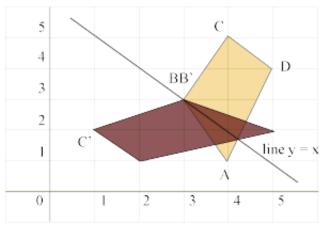




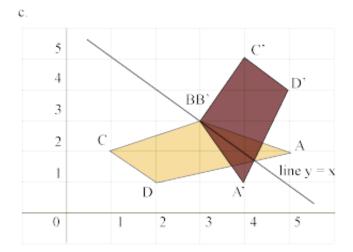
a.



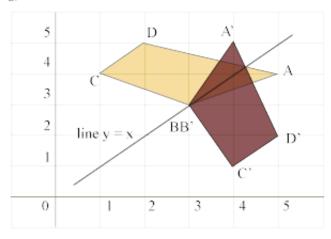
b.



- a
- U
- C
- d

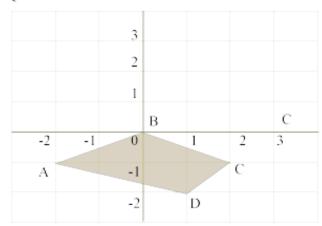


d.

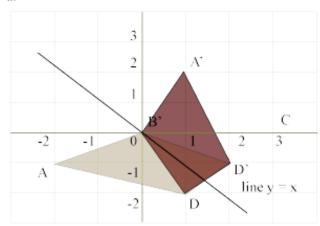


15) Graph the image of the figure using the transformation given: Reflection about y = -x

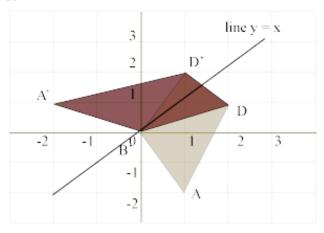




a.

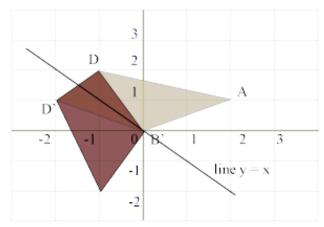


b.

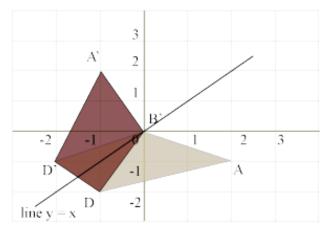


- d
- b
- C
- a

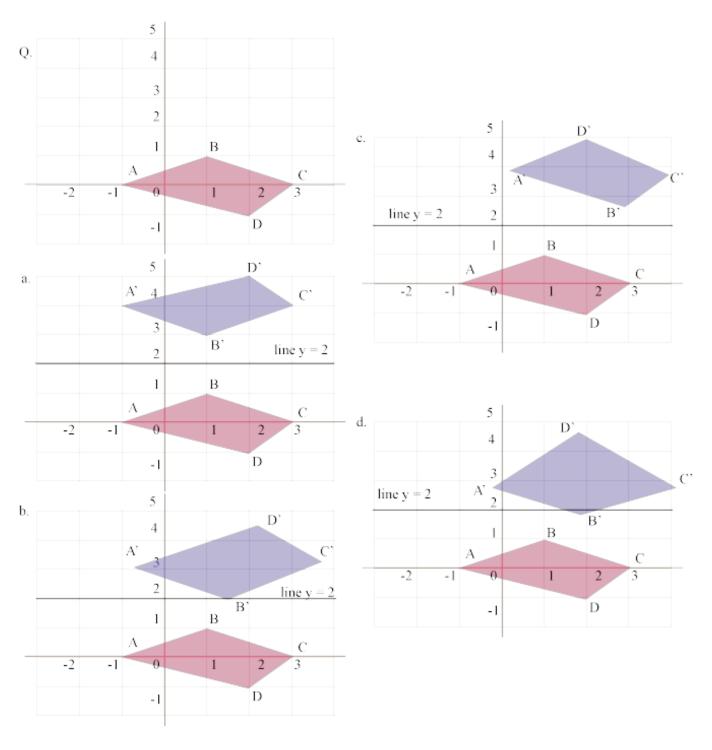
Ċ.



d.

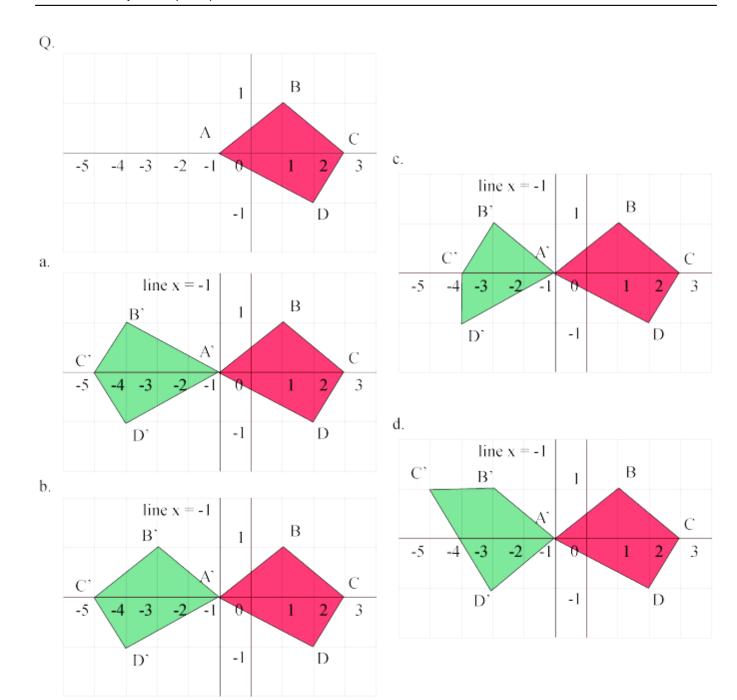


16) Graph the image of the figure using the transformation given: Reflection about y=2



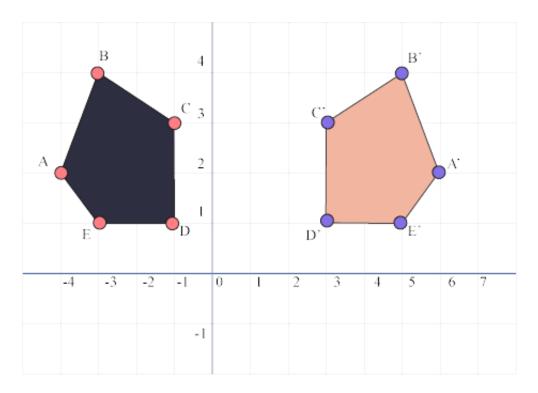
- C
- b
- a
- d

17) Graph the image of the figure using the transformation given: Reflection about x=-1



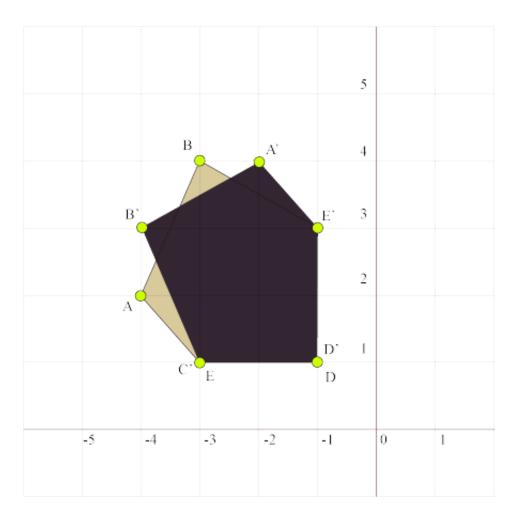
18) Write the equation of the line of reflection. Black is the original, brown is the image

c d b



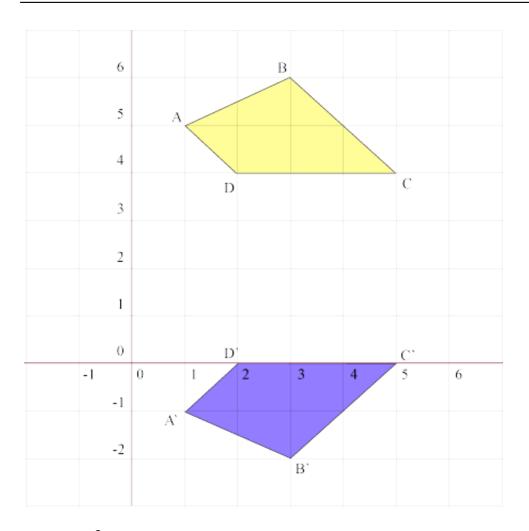
- $\bullet \quad x = 2$
- x = 4
- x = 3
- x = 1

19) Write the equation of the line of reflection. Sandal is the original, Black is the image.



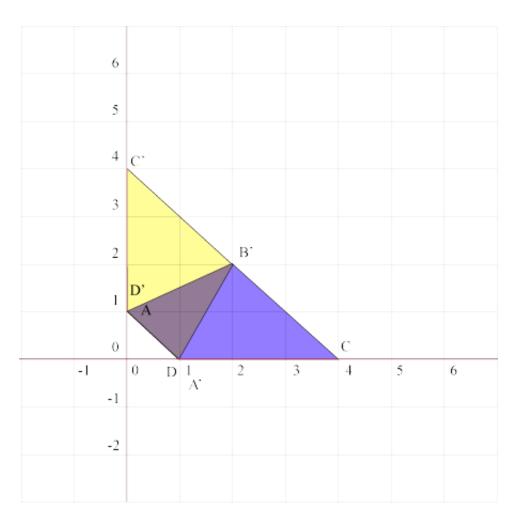
- y = -y
- y = x
- y = -x
- y = y

20) Write the equation of the line of reflection. Yellow is the original, purple is the image.

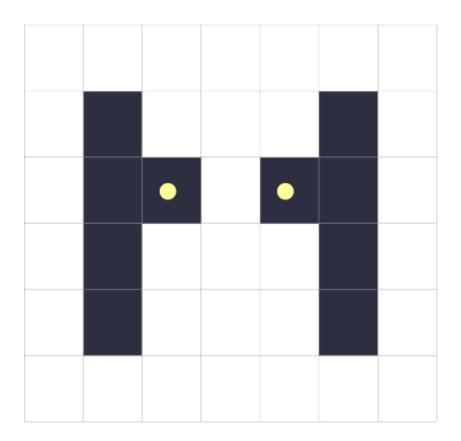


- y = 3
- y = 5
- y = 2
- y = 4

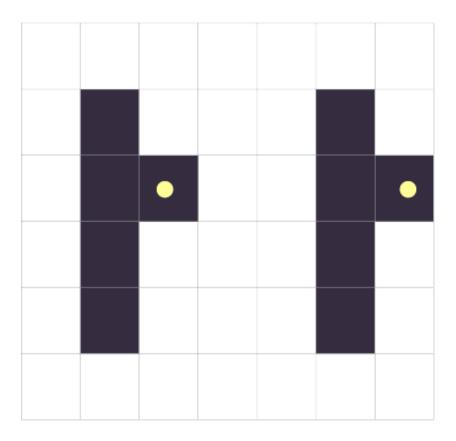
21) Write the equation of the line of reflection. Purple is the original, yellow is the image



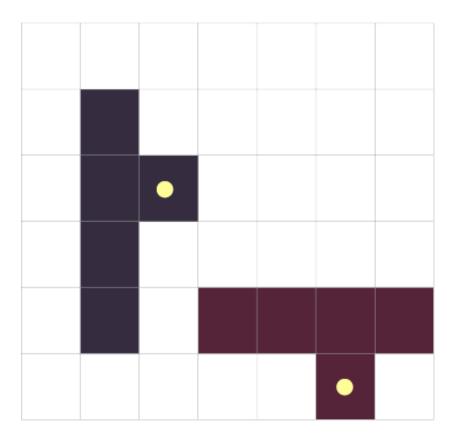
- y = x
- \/ --v
- y = y
- y = -y



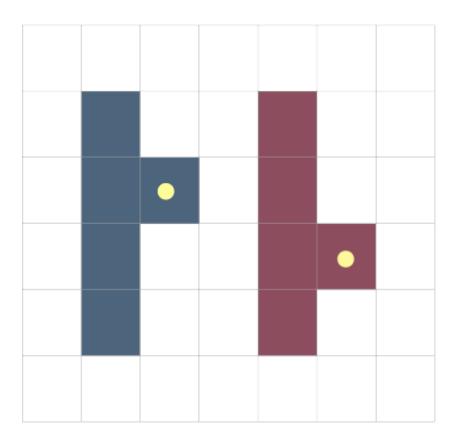
- Reflection
- Translation cum reflection
- Rotation
- Translation



- Reflection
- Translation
- Rotation
- Translation cum reflection

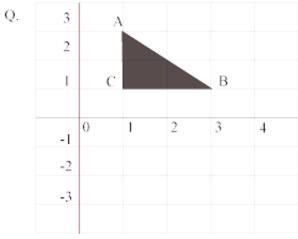


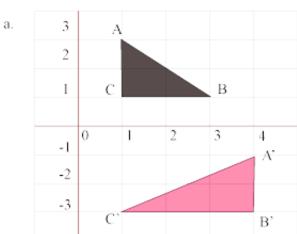
- Rotation
- Translation
- Translation cum reflection
- Reflection

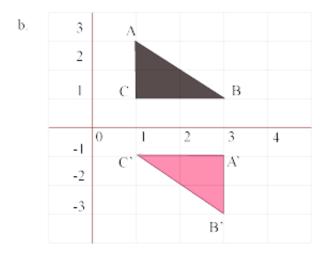


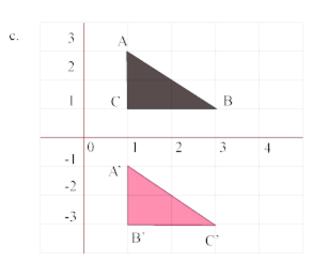
- Rotation
- Reflection
- Translation cum reflection
- Translation

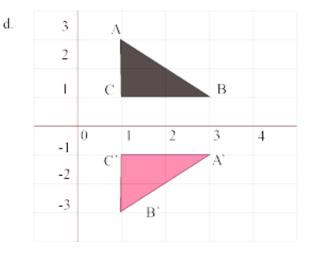
26) Draw the pre-image of the following translations as per the given rule: Rotate  $90^{\circ}$  clockwise direction about the center (0,0)







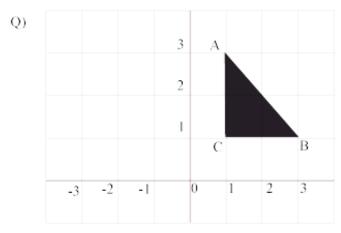


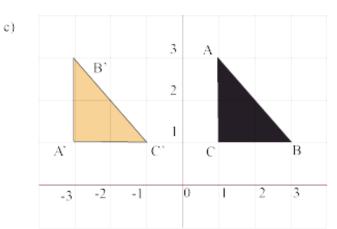


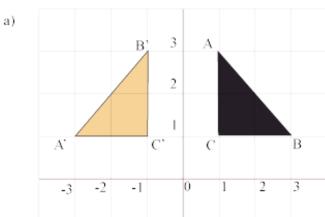
- d
- a
- b
- C

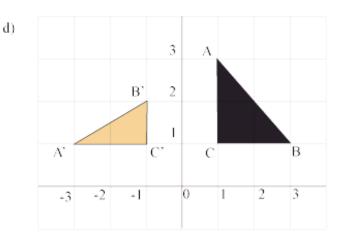
27) Draw the pre-image of the following translations as per the given rule: Rotate 90° counter clockwise

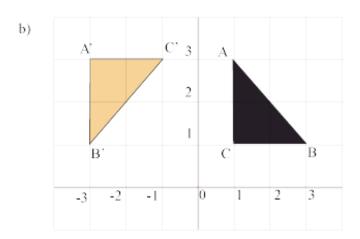
## direction about the center (0, 0)





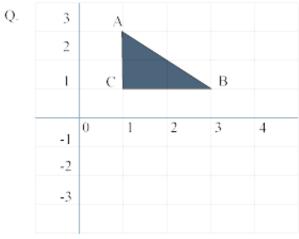


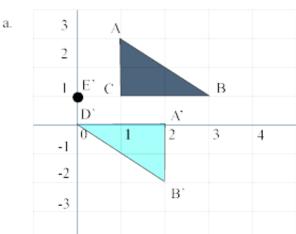


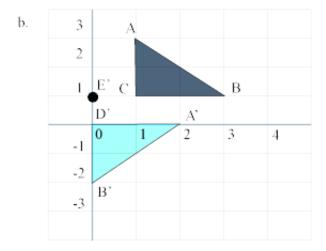


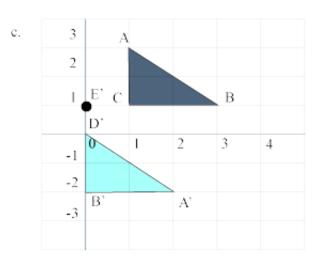
- d
- c
- b
- a

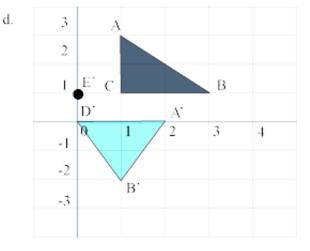
28) Draw the pre-image of the following translations as per the given rule: Rotate  $90^{\circ}$  clockwise direction about the center (0,1)







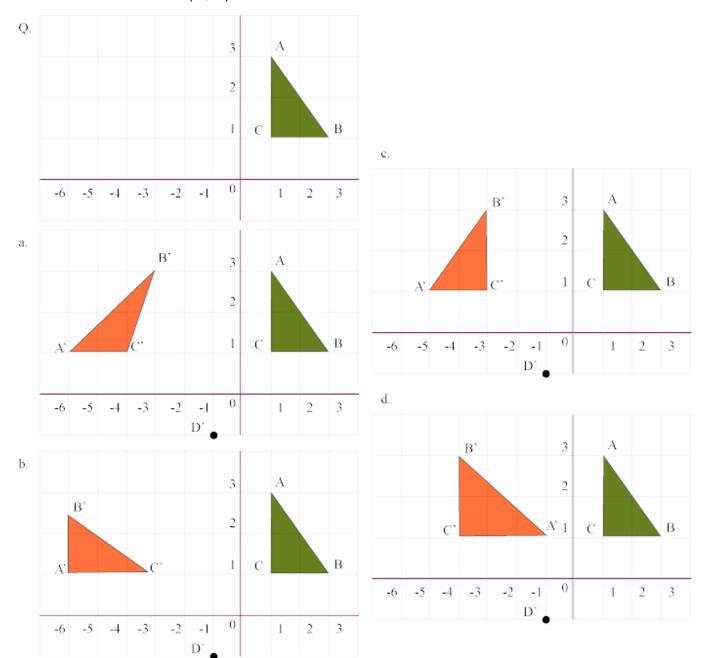




- d
- C
- a
- b

29) Draw the pre-image of the following translations as per the given rule: Rotate 90° counter clockwise

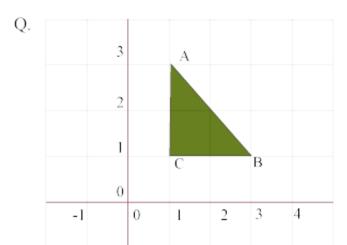
## direction about the center (-1, -1)

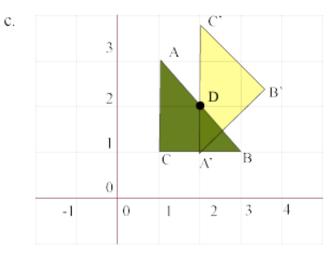


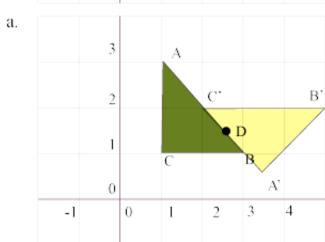
- b
- a
- C
- d

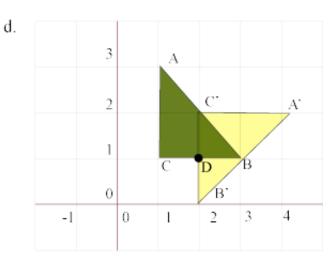
30) Draw the pre-image of the following translations as per the given rule: Rotate  $90^{\circ}$  clockwise direction about the center (2, 1).

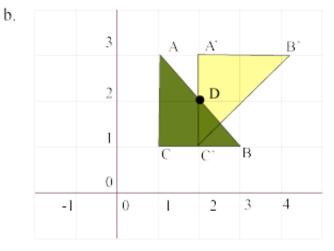
# TeenEinstein The cool & fun learning aid for Maths(Grades 6-12) Driven by Concept Map.











- C
- b
- a
- d