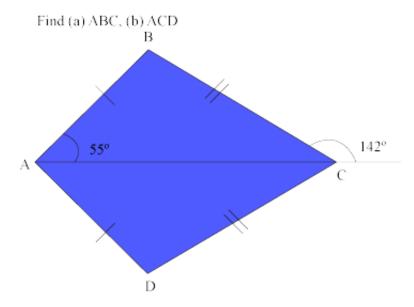
### **Eighth Grade - Geometry**

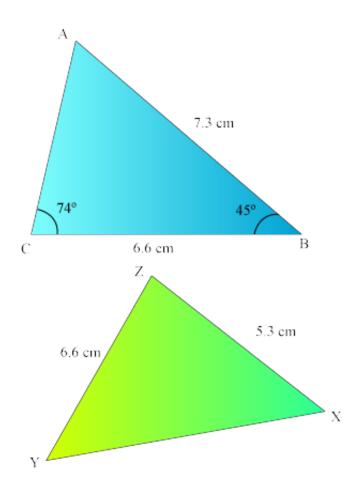
1) Given that the two triangles ABC and ADC below are congruent. Find



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

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

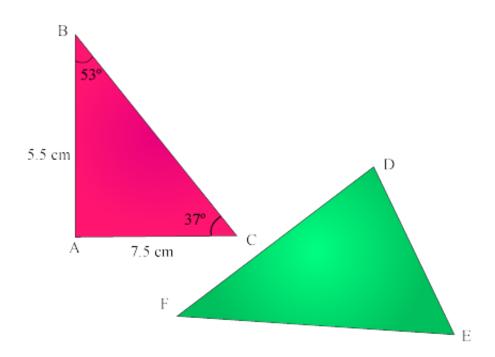
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- a) 7.3 cm, b) 61°
- a) 7.4 cm, b) 51°
- a) 8.3 cm, b) 81°
- a) 6.4 cm, b) 71°

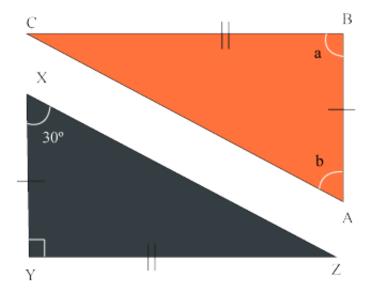
3) Given below ?ABC is congruent to ?DEF, find (a) the length of side DF, (b) ?EDF

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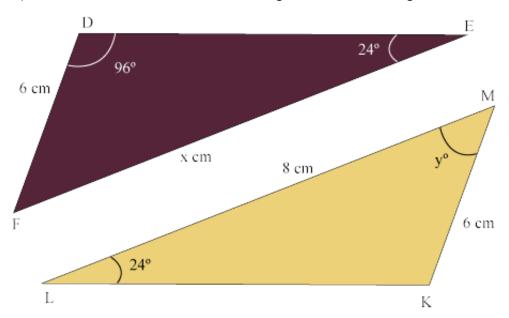
- a) 7.5 cm, b)90°
- a) 6.5 cm, b)60°
- a) 5.3 cm, b)70°
- a) 8.2 cm, b)80°

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



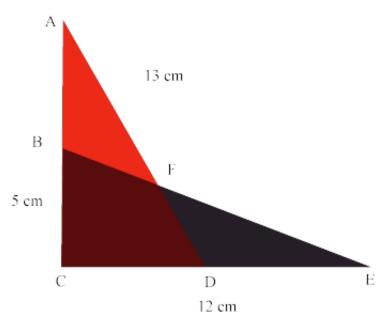
- $?a = 60^{\circ} \& ?b = 20^{\circ}$
- $?a = 90^{\circ} \& ?b = 30^{\circ}$
- $?a = 50^{\circ} \& ?b = 40$
- $?a = 70^{\circ} \& ?b = 10^{\circ}$

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



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

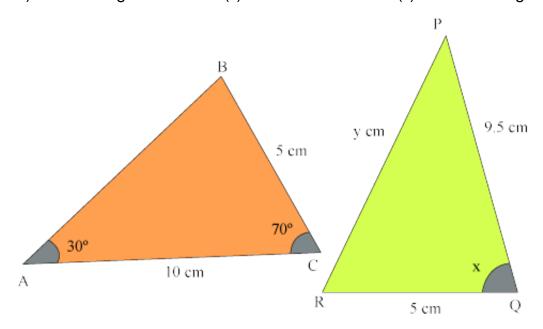
## 6) ?ACD is congruent to ?ECB.CE = 12 cm, AD = 13 cm and BC = 5 cm. Find the length of AB



• 7 cm

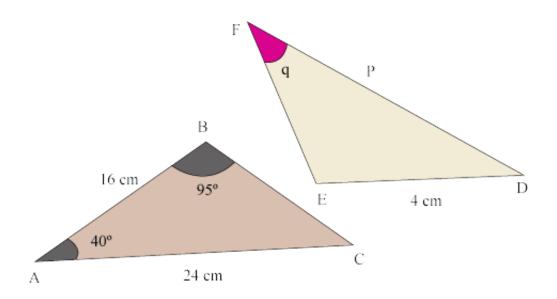
- 3 cm
- 8 cm
- 1 cm

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



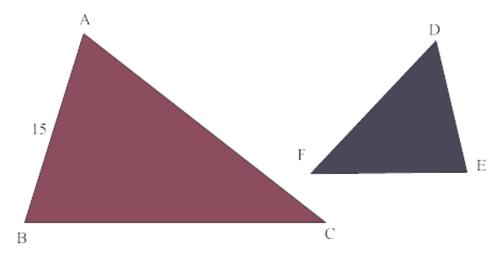
- a) 10°, b) 60 cm
- a) 70°, b) 20 cm
- a) 60°, b) 80 cm
- a) 80°, b) 10 cm

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



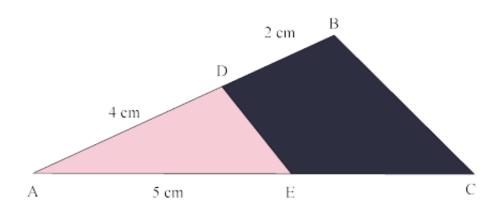
- a) 46°, b) 2 cm
- a) 45°, b) 6 cm
- a) 41°, b) 3 cm
- a) 47°, b) 5 cm

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



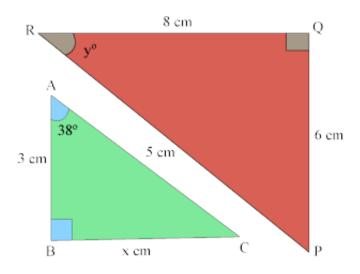
- 8
- 7
- 3
- 2

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



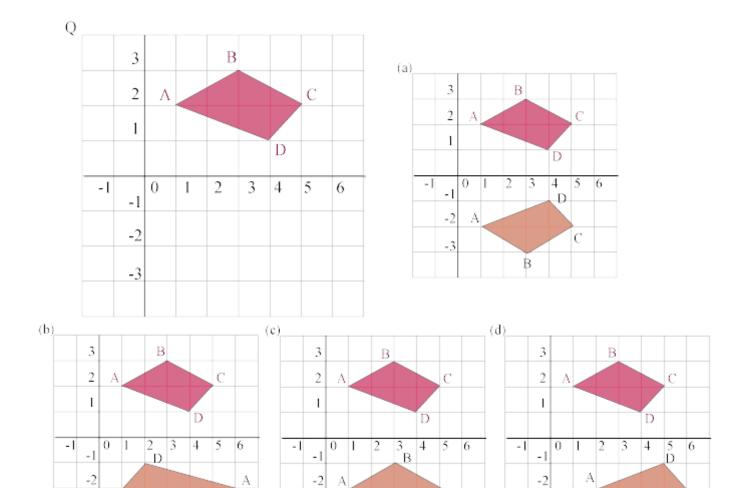
- 2.5 cm
- 4.5 cm
- 5.5 cm
- 6.5 cm

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



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

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



• C

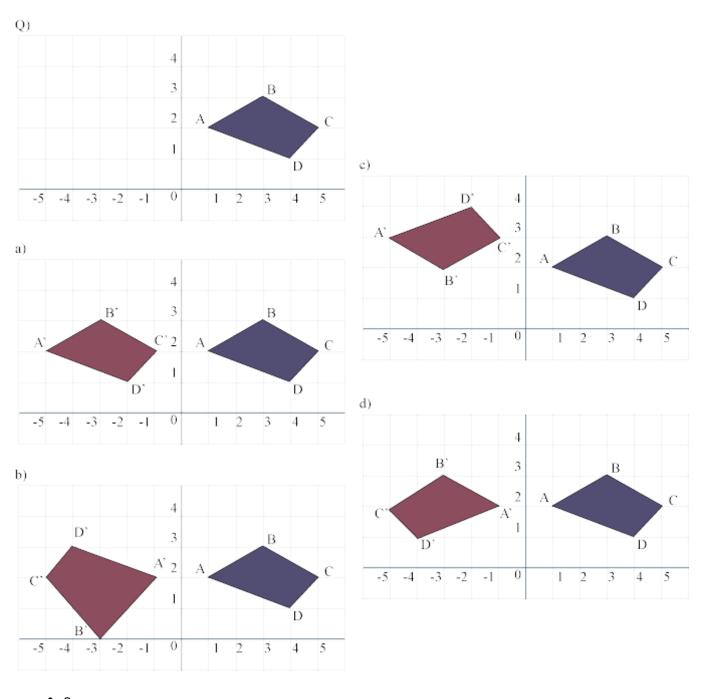
-3

В

- b
- a
- d

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

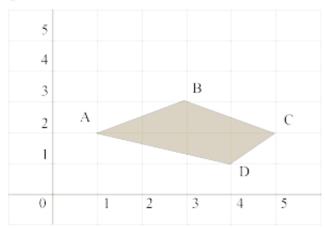
В



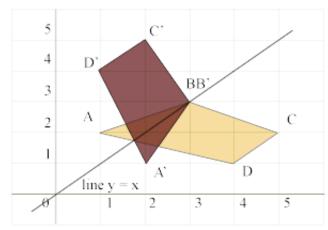
- a
- d
- C
- b

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

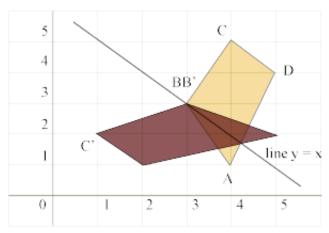




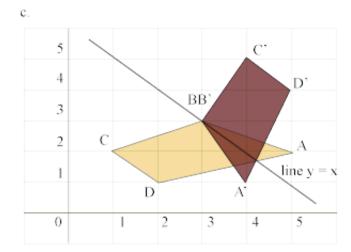
a.



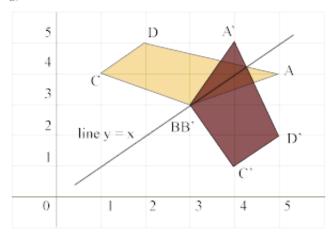
b.



- b
- C
- C
- a

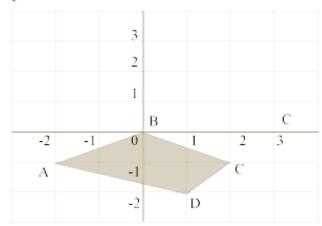


d.

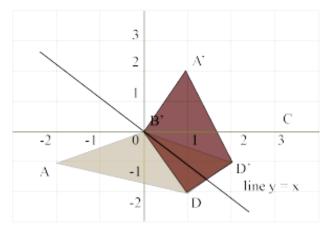


15) Graph the image of the figure using the transformation given: Reflection about y = -x

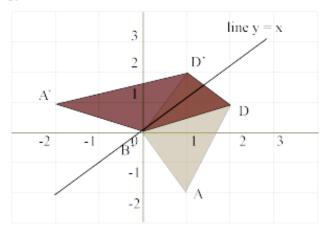




a.

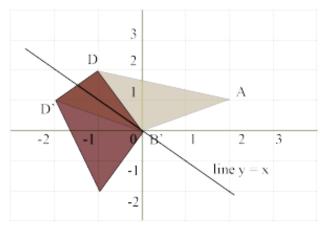


b.

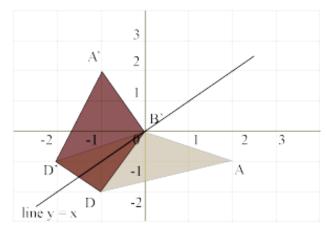


- b
- a
- C
- d

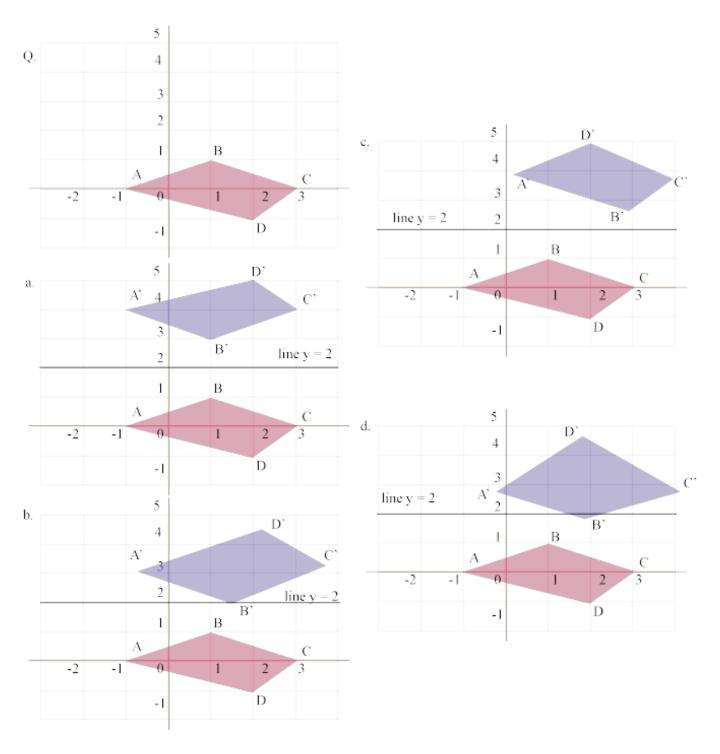
Ċ.



d.

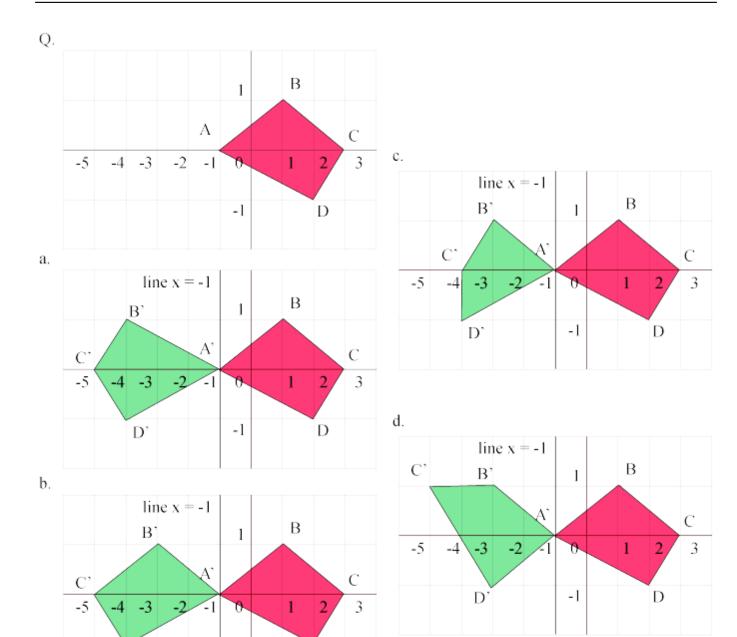


16) Graph the image of the figure using the transformation given: Reflection about y=2



- b
- d
- C
- a

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



• d

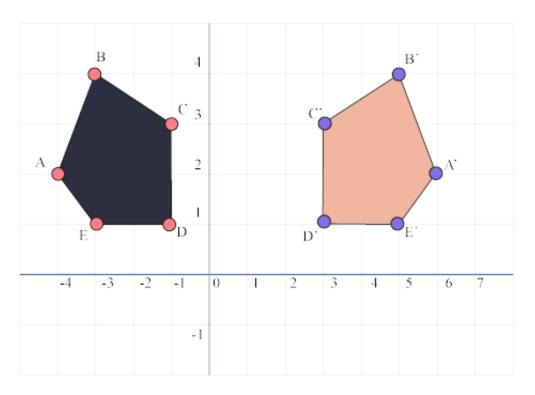
D,

- b
- a
- C

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

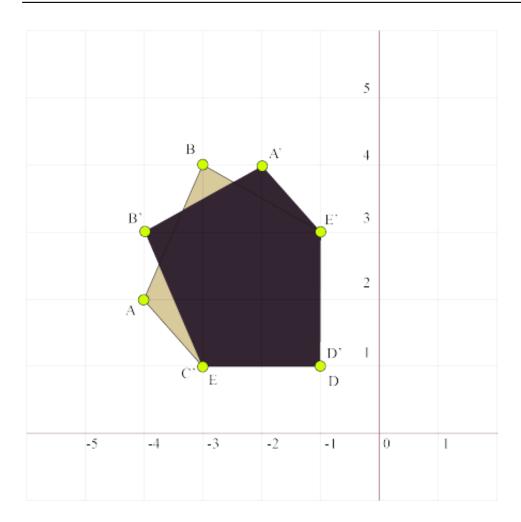
D

-1



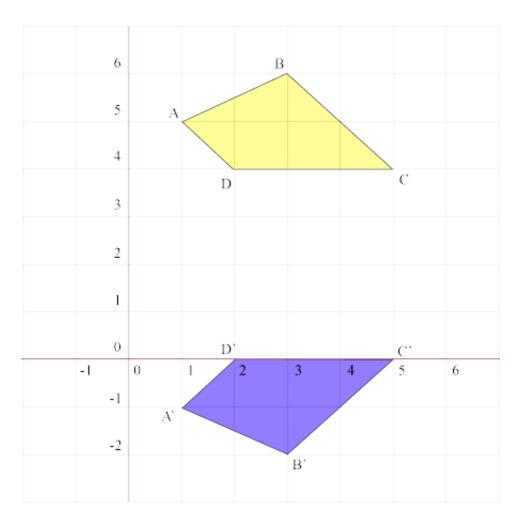
- x = 1
- x = 3
- x = 4
- x = 2

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



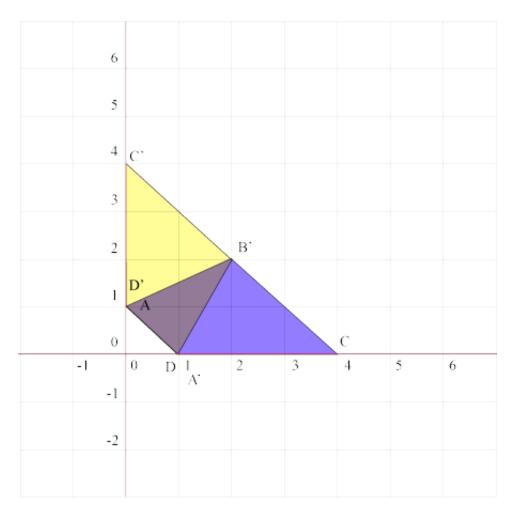
- y = x
- y = -y
- y = y
- y = -x

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

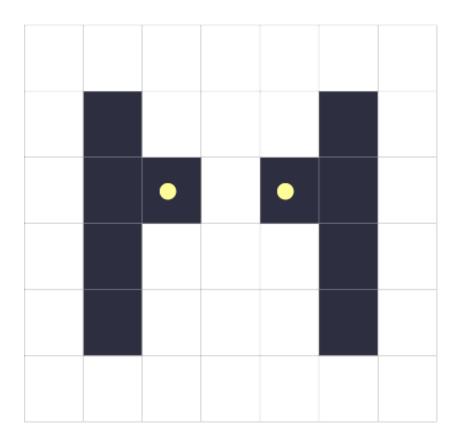


- y = 5
- y = 2
- y = 3
- y = 4

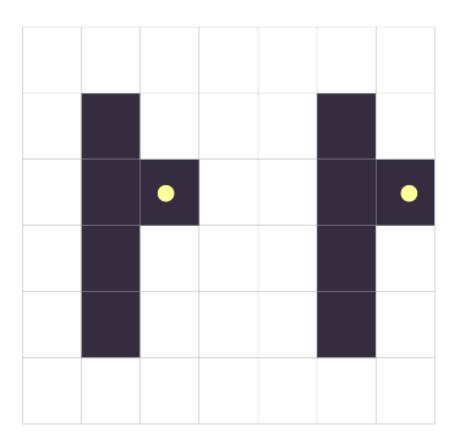
21) Write the equation of the line of reflection. Purple is the original, yellow is the image



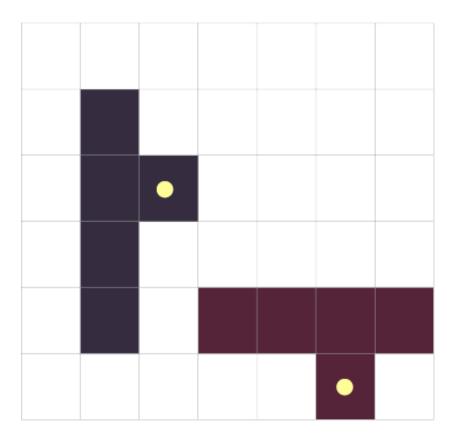
- y = y
- y = -y
- y = x
- y =-x



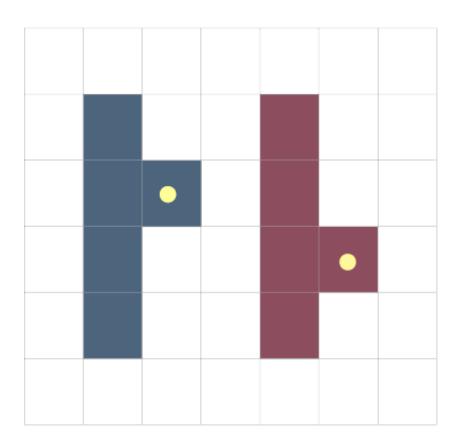
- Reflection
- Rotation
- Translation cum reflection
- Translation



- Reflection
- Translation
- Translation cum reflection
- Rotation

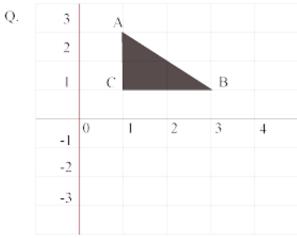


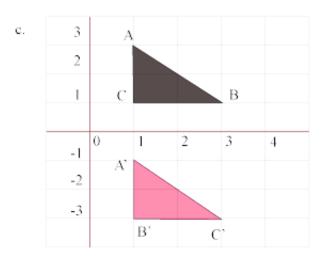
- Rotation
- Translation
- Reflection
- Translation cum reflection

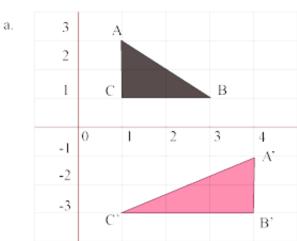


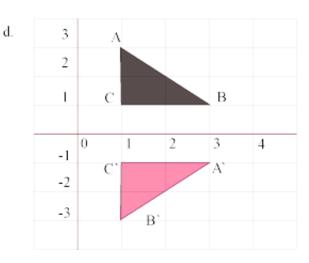
- Reflection
- Rotation
- Translation
- Translation cum reflection

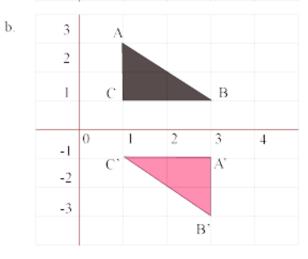
26) Draw the pre-image of the following translations as per the given rule: Rotate  $90^{\circ}$  clockwise direction about the center (0,0)







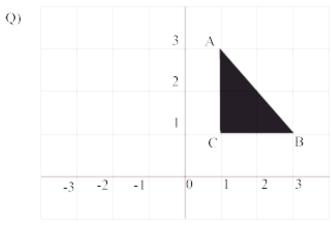


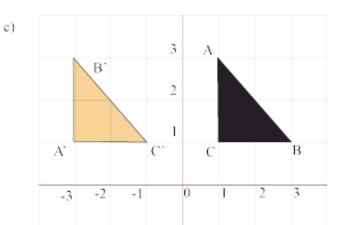


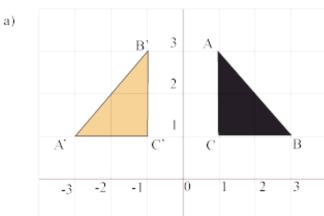
- C
- a
- b
- d

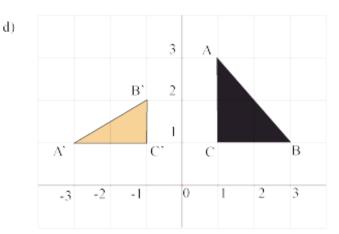
27) Draw the pre-image of the following translations as per the given rule: Rotate 90° counter clockwise

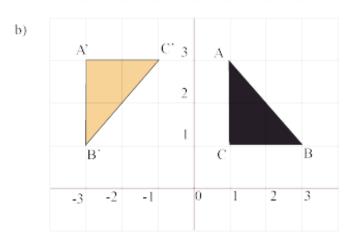
# direction about the center (0, 0)





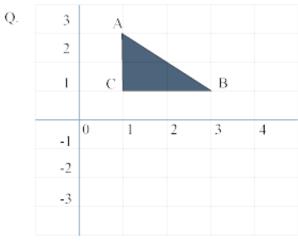


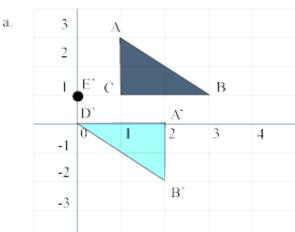


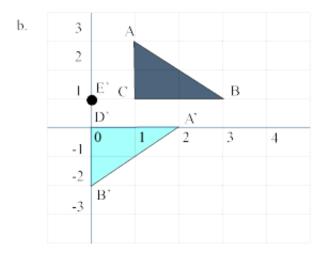


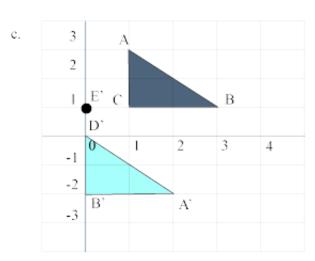
- C
- a
- d
- b

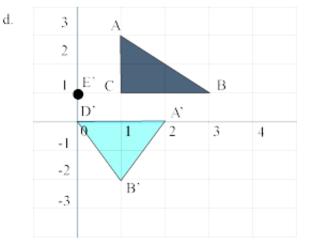
28) Draw the pre-image of the following translations as per the given rule: Rotate  $90^{\circ}$  clockwise direction about the center (0,1)







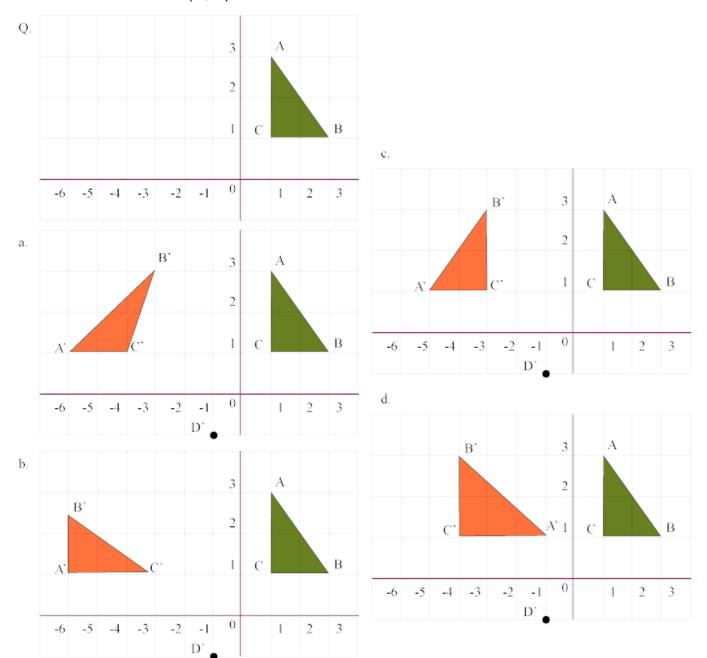




- d
- a
- b
- C

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

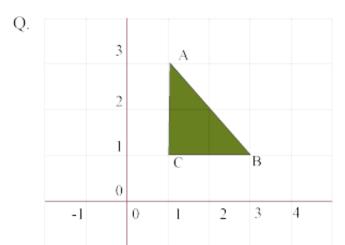
# direction about the center (-1, -1)

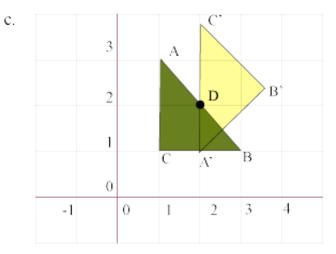


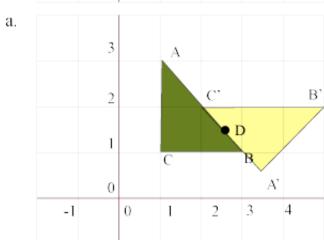
- b
- C
- a
- d

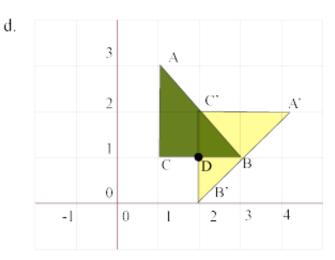
30) Draw the pre-image of the following translations as per the given rule: Rotate  $90^{\circ}$  clockwise direction about the center (2, 1).

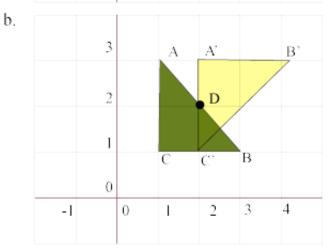
# TeenEinstein The cool & fun learning aid for Maths(Grades 6-12) Driven by Concept Map.











- a
- b
- d
- c