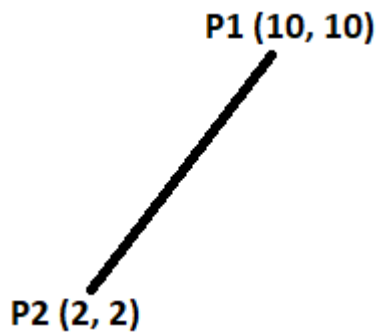# Quiz on Transformation

The respondent's email (**18101009@uap-bd.edu**) was recorded on submission of this form.
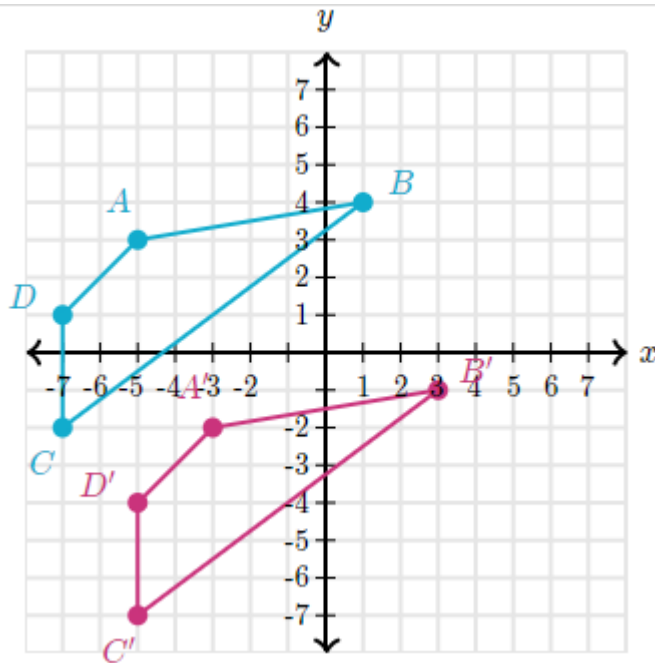

If we apply the following transformations: 1) Translate by (10, 12) 2) Scale by (2, 3) to the following line, what will be the coordinate of P1 and P2 after transformation?

P1 (10, 10)

P2 (2, 2)

- ⦿ P1(40, 66) and P2 (24, 42)
- ◯ P1(28, 44) and P2 (44, 62)
- ◯ P1(40, 42) and P2(24, 66)
- ◯ P1(24, 42) and P2(40, 66)

We get the polygon A'B'C'D' after translating the polygon ABCD by a unit in x-direction and b unit in y-direction. What is the value of a and b?
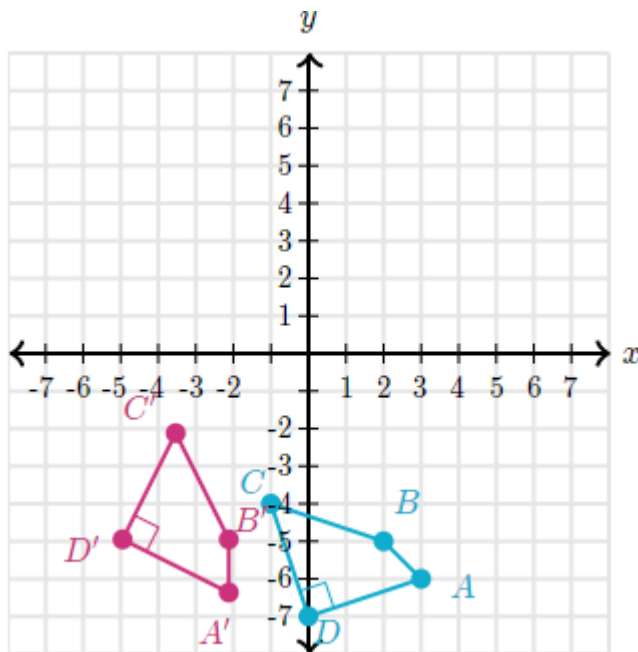

○ a= 5 , b = -2

◉ a= 2 , b = -5

○ a= -2 , b = -5

○ a= -5 , b = -2

Which of the following are true for Perspective projection?

☐ Good for exact measurements

☑ Size varies inversely with distance

☐ Parallel line remains parallel

☑ Distance and angles are not preserved

We get Quadrilateral A'B'C'D' after rotating quadrilateral ABCD about the origin, (0,0). Determine the angle of rotation.

- (•) -45 degree
- (○) 45 degree
- (○) -15 degree
- (○) 15 degree

Which of the following Camera parameters are used to orient the camera correctly ?

- ☑ Angle of View
- ☑ Camera position
- ☑ Far distance
- ☑ Camera Up Direction
- ☑ Near Distance
- ☐ Center of Attention
- ☐ Homogeneous coordinate

Correct answer

- ☑ Camera position
- ☑ Camera Up Direction
- ☑ Center of Attention

You want to transform an object, such that each point (x, y), becomes (2x + 4, 3y + 6). Which of the following sets of transformations should you use?

- ○ Translate by (2 , 3) and then scale by (4, 6)
- ○ Scale by (4 , 6) and then translate by (2, 3)
- ○ Translate by (4 , 6) and then scale by (2, 3)
- ◉ Scale by (2, 3) and then Translate by (4 , 6)

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