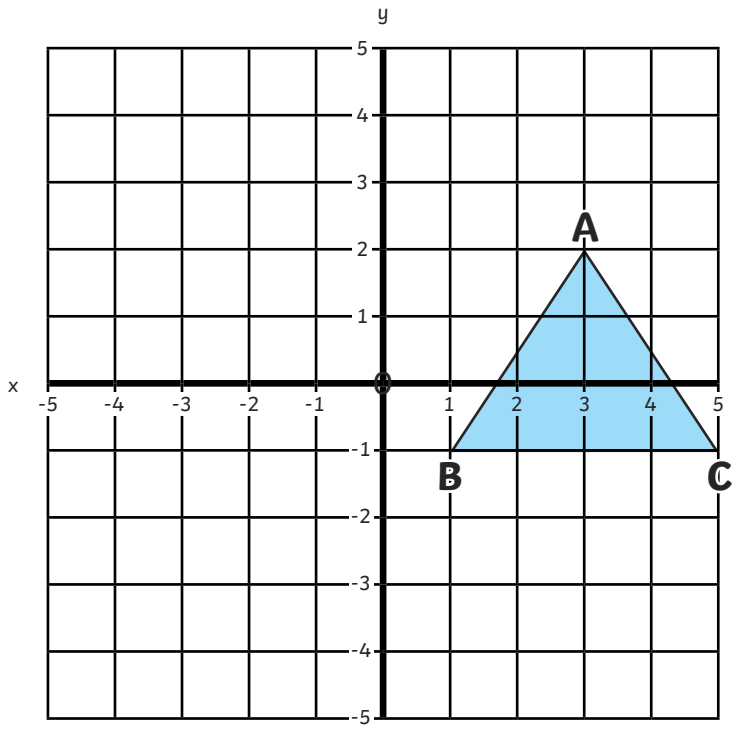
1) Ramesh has plotted this triangle on a four-quadrant coordinate grid.

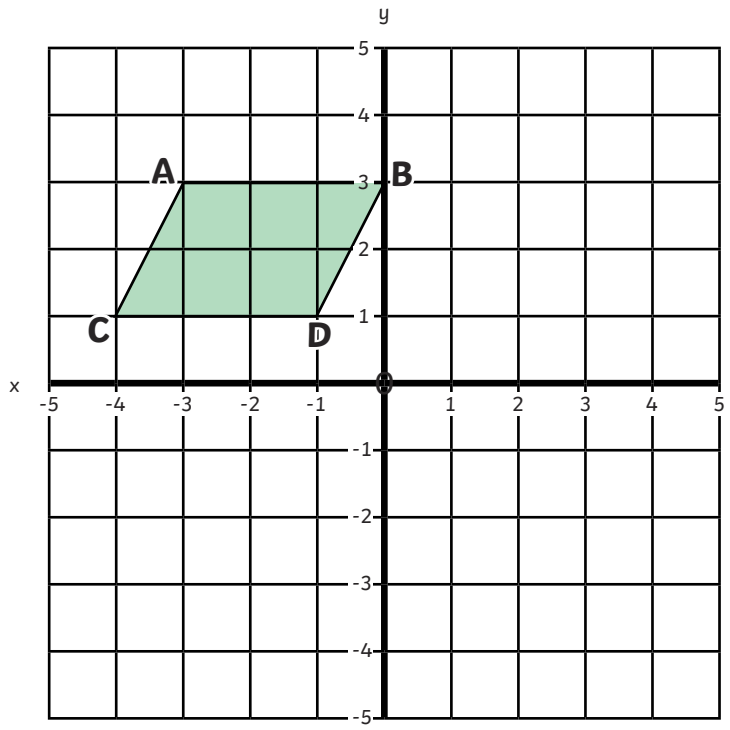


a) If the triangle is translated 5 squares to the left, what will the new coordinates of vertex A be?

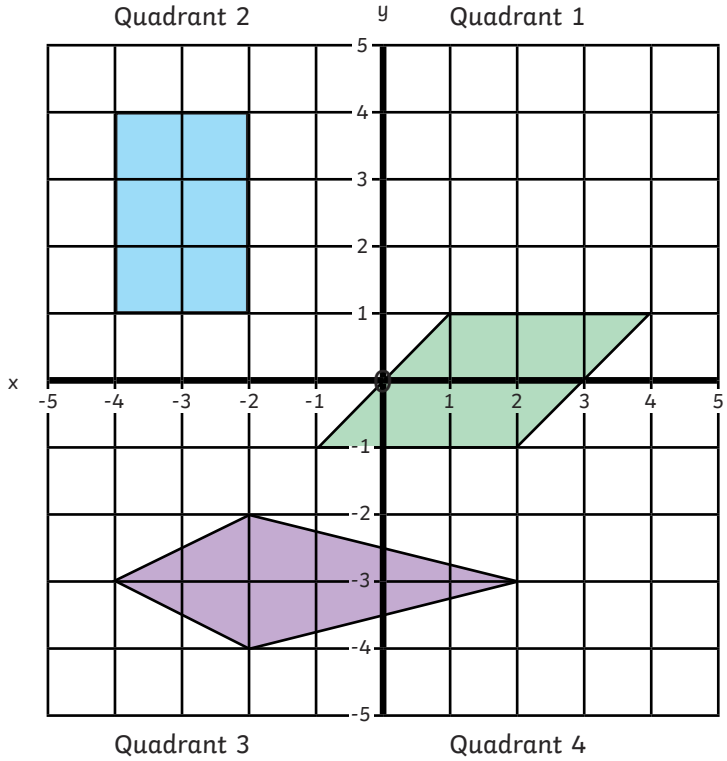
b) If the triangle is translated 3 squares up, what will the new coordinates of vertex B be?

c) If the triangle is translated 5 squares to the left and 3 squares up, what will the new coordinates of vertex C be?

2) James translates this parallelogram 3 squares to the right and 5 squares down. Draw the translated parallelogram on the grid and give the new coordinate positions of the vertices.



1) Are these statements about the quadrilaterals on this four-quadrant coordinate grid true or false? Explain your answers using reasoning.



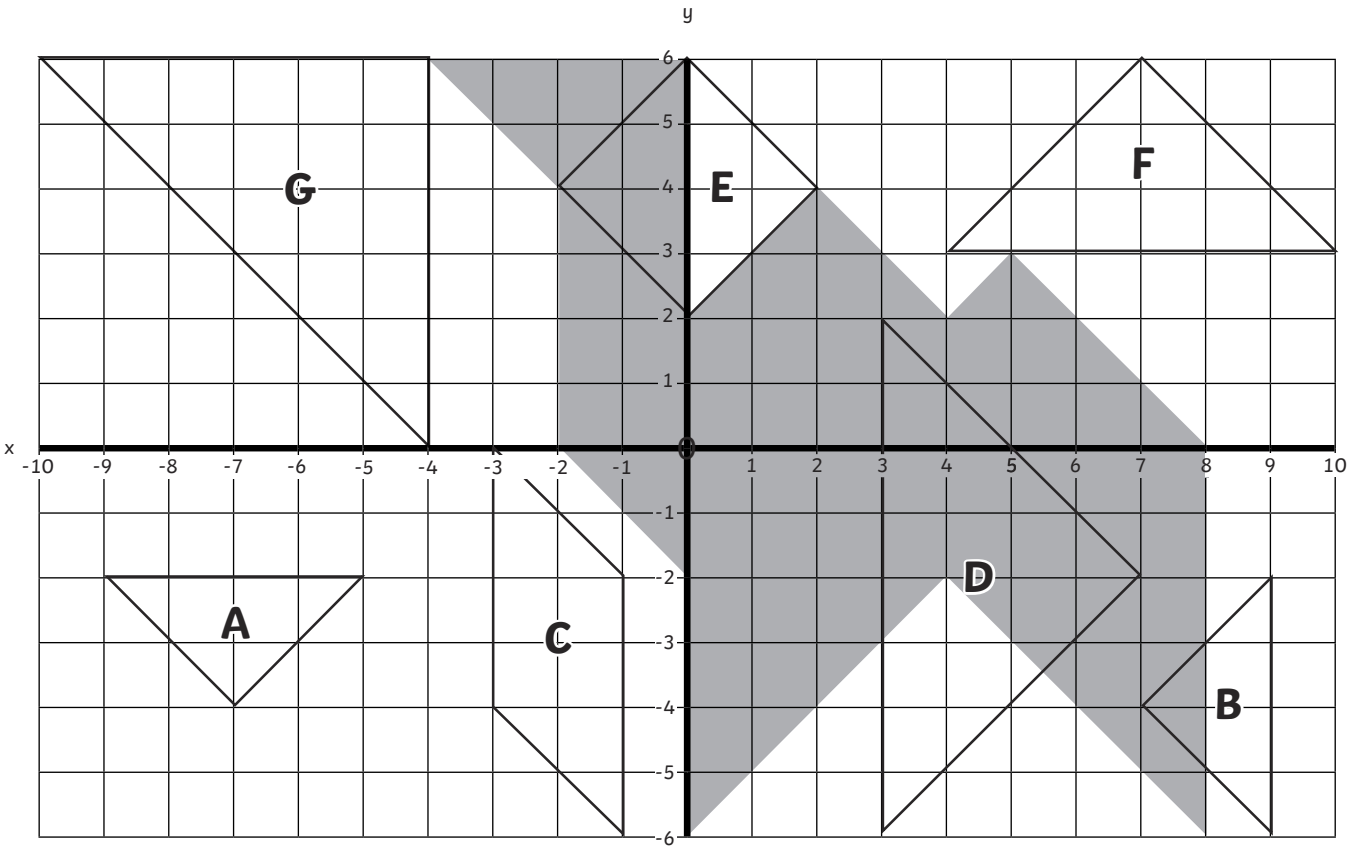
a) One of the vertices of the rectangle would be at (0,0), after a translation of 2 squares to the right and 2 squares down.

b) The parallelogram is translated and the new coordinate for one of its vertices is (-1,-3). The only way to describe the translation is 2 squares down.

c) After a translation of 1 square to the left, all of the vertices of the kite will be in quadrant 3.

2) Write two true statements and one false statement about translating the shapes on this coordinate grid. Can your partner identify whether each statement is true or false?

1) Translate the shapes into position so that they create the shaded camel. Record the translations you make and give the starting and finishing coordinates of the vertices of each shape.



Shape	Starting Coordinates	Translation	Finishing Coordinates
A			
B			
C			
D			
E			
F			
G			