Essential Skills 3

The skills in this series of worksheets appear frequently.

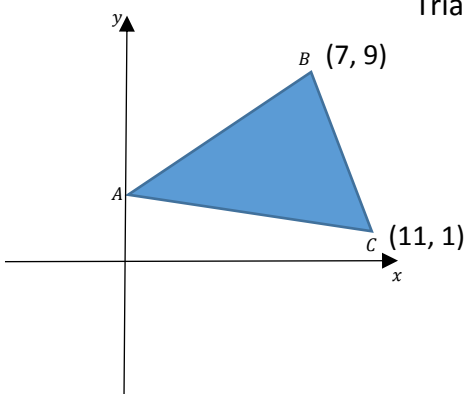These are the GIFTS you must take to succeed

Altitude of a Triangle   (Non Calculator)

Find the equation of the altitude from A in each:

1.   A (2, 1), B (4, 7) and C (10, 1)

2.   A (1, -5), B (-5, 5) and C (7, -7)

3.   A (1, 14), B (0, -3) and C (9, 0)

4.   A (-3, 1), B (4, 7) and C (8, -1)

5.   A (-4, 4), B (-2, -6) and C (6, 2)

6.   A (-1, 4), B (1, -4) and C (-7, 0)

7.   A (1, 8), B (3, 14) and C (9, 8)

8.   A (3, 9), B (-7, -1) and C (9, -9)

9.   A (3, -2), B (-1, -5) and C (7, 1)

10.   A (4, 8), B (-2, 4) and C (10, 4)

APPLYING QUESTION

Triangle ABC has vertex A on the y-axis.

B (7, 9)

A

C (11, 1)

(a)   The equation of AB is $7y - 6x - 21 = 0$

State the coordinates of A.

(b)   Find the equation of the altitude from A.

(c)   Determine the co-ordinates of the point where the altitude from A meets the line BC.