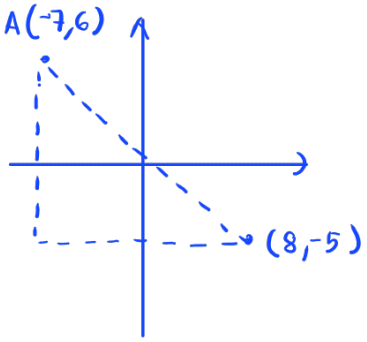
1 *A* and *B* are points on a centimetre grid.
A is the point with coordinates (−7, 6)
B is the point with coordinates (8, −5)

Work out the length of *AB*.
Give your answer correct to 1 decimal place.



$AB^2 = (y_2 - y_1)^2 + (x_2 - x_1)^2$

$= (6 - (-5))^2 + (-7 - 8)^2$ (1)

$= (11)^2 + (-15)^2 = 346$

$AB = \sqrt{346}$

$= 18.6$ (1)

18.6 ..... cm

(Total for Question 1 is 2 marks)