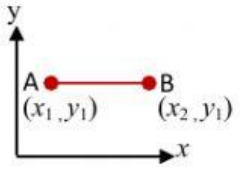
7.1.2.Rumus jarak antara dua titik pada satah

1. Lengkapkan jadual berikut

Koordinat		Koordinat yang sama	Jarak
A (2 , 1)	B (2 , 4)	Koordinat x	4 – 1= 3 unit
C (- 1 , 3)	D (7 , 3)		
E (6 , 5)	F (6 , - 5)		
G (-7 , 2)	H (1 , 2)		

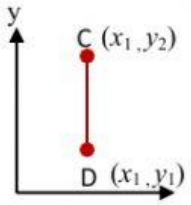
Berdasarkan jadual ,jarak dapat ditentukan sekiranya

i. dua titik mempunyai koordinat –y yang sama



Jarak AB =(x_2 - x_1) unit

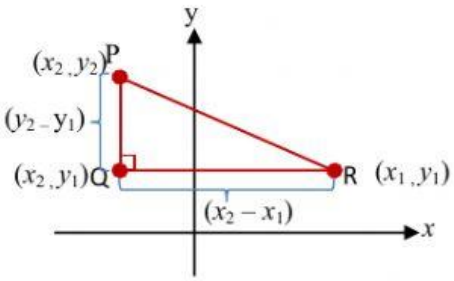
ii. Dua titik mempunyai koordinat-x yang sama.



Jarak CD = (y_2 - y_1)

2. Lengkapkan rajah berikut berdasarkan pilihan jawapan yang diberi untuk menerbitkan rumus jarak

$(y_2 - y_1)^2$ $\quad$ $y_2 - y_1$ $\quad$ $(x_2 - x_1)^2$ $\quad$ $y_2 - y_1$



Jarak QR = $x_2 - x_1$

Jarak PQ = _____

Menggunakan teorem Pythagoras

$PR^2 = PQ^2 - QR^2$

$= (x_2 - x_1)^2 + (_____)^2$

PR = $\sqrt{_____ + _____}$

LIVEWORKSHEETS

7.1.3 Jarak di antara dua titik pada satah

Hitung jarak di antara pasangan titik berikut

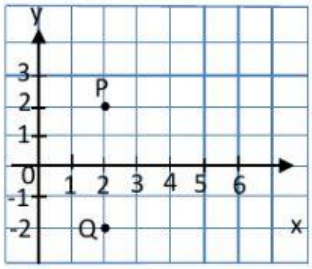
a. A(1, 3) dan B (1, 7)

AB = _____ - _____ =_____unit

b. C(5 , -2) dan D (- 2, - 2)

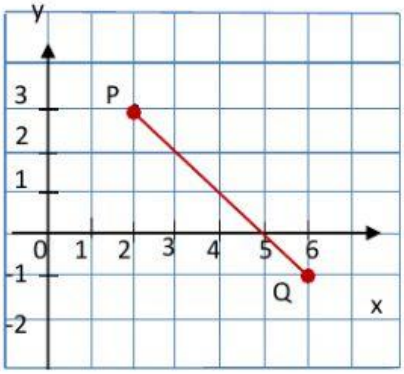
CD= _____ - (_____) = _____unit

c.



PQ = 2 – (____) = _____unit

d.



PQ = $\sqrt{(_____)^2 + [(3 - (-1\ \ )]^2}$

= $\sqrt{____^2 \quad + ____^2}$

= $\sqrt{____}$

= _____ unit

LIVEWORKSHEETS