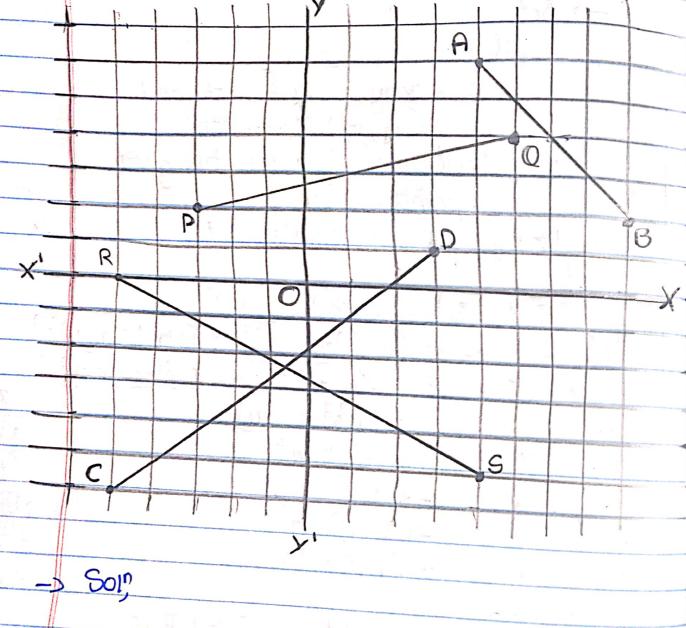
Assignment

- From the figure given below, find the coordinates of the points A,B,P,Q,C,D,R and S. Also find the distance between;
- i) A and B, ii) Pand Q, iii) Cand D (iv) R and S.



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Here, (i) $A = (4,6)$ and $B = (8,2)$ Sol!, $(x_1,y_1) = (4,6)$ and $(x_2,y_2) = (8,2)$ $d = distance$ between two given points Using distance formula,	
Using distance tolmula, $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ $= \sqrt{(8 - 4)^2 + (2 - 6)^2}$ $= \sqrt{(4)^2 + (-4)^2}$ $= \sqrt{16 + 16}$ $= \sqrt{32}$ $\therefore AB = 4\sqrt{2} \text{ units}$	2/32 2/16 2/4 2/4 2x2/2 4/2
ii) $P(-3,2)$ $Q(5,4)$ $2 S_0$ $(x_1y_1) = (-3,2)$ and $(x_2,y_2) = (5,2)$ d = distance between two given points Using distance formula, $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ $= \sqrt{(5 + 3)^2 + (4 + 2)^2}$ $= \sqrt{(8)^2 + (2)^2}$	2168 2134 1717
= \(\sqrt{94+4} = \sqrt{68} = 2\sqrt{17 units}	

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iji) C (-5,-6) & D(3,1)	
-> Soin	
$(x_1, y_1) = (-5, 6) & (x_2, y_2) = (3, 1)$	
d=distance between two points	
Using distance bormula,	
$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	
$= \sqrt{(3+5)^2 + (1+6)^2}$ $= \sqrt{(8)^2 + (7)^2}$	64
$= (8)^2 + (7)^2$	<u>t49</u>
= 64+49	: 13
: CD = 113 units	
iv) R(-5,0) and S(4,-5)	
->Soln	
(x1,y1)=(-5,0) & (x2,y2)=(4,-5)
d=distance between two prints	
Using distance formula, $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	
$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	8
$=\sqrt{(4+5)^2+(-5+0)^2}$	81
$=\sqrt{(9)^2+(-5)^2}$	+25
=√81+25	53
: RS = 1106 units	*

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