

Name [REDACTED]

Honors Geometry

Distance Formula Excel Worksheet Assignment

- | | | | |
|--|---|--|---|
| 1) $\overline{PQ} = 3.61$
$\overline{QR} = 9.22$
Answer: <u>no</u> | 2) $\overline{PQ} = 13.04$
$\overline{QR} = 13.04$
Answer: <u>yes</u> | 3) $\overline{PQ} = 12.81$
$\overline{QR} = 13.15$
Answer: <u>no</u> | 4) $\overline{PQ} = 18.44$
$\overline{QR} = 18.44$
Answer: <u>yes</u> |
|--|---|--|---|

5) distance = 3770.09

6) distance = 5482.98

7) distance = 4395.17

8) distance = 8679.28

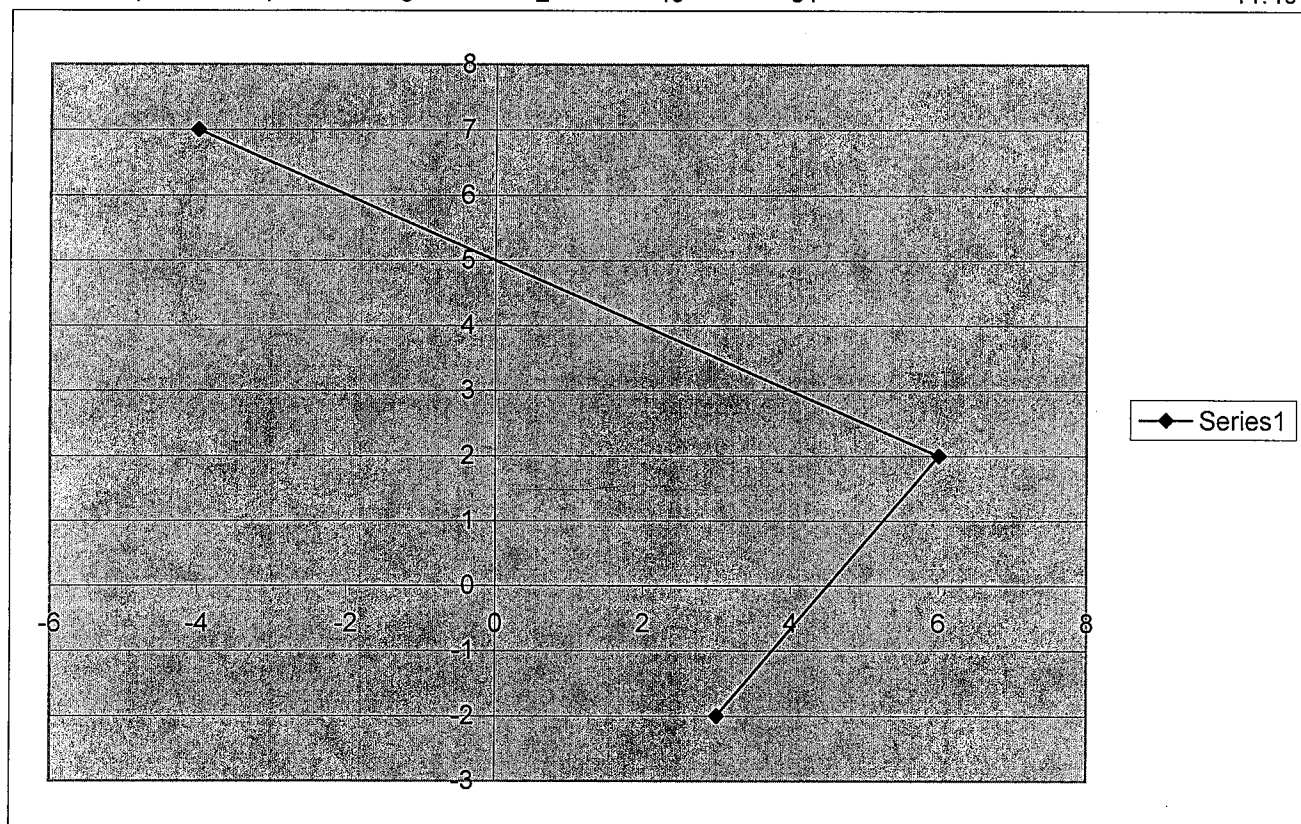
9) distance = 1205.18

10) $\overline{AB} = 11.18$

$\overline{AC} = 5$

$\overline{BC} = 11.40$

X_1	Y_1	X_2	Y_2	$(X_2 - X_1)^2$	$(Y_2 - Y_1)^2$	$\sqrt{(X_2 - X_1)^2 + (Y_2 - Y_1)^2}$
1	1	4	5	9	16	5.00
4	-4	1	-6	9	4	3.61
1	-6	-1	3	4	81	9.22
-1	-6	-8	5	49	121	13.04
-8	5	3	-2	121	49	13.04
5	1	-5	-7	100	64	12.81
-5	-7	-3	6	4	169	13.15
-2	0	10	-14	144	196	18.44
10	-14	-4	-2	196	144	18.44
5075	2326	8436	4034	11296321	2917264	3770.09
5986	3426	6363	8896	142129	29920900	5482.98
8351	527	6687	4595	2768896	16548624	4395.17
4550	1219	9468	7629	24186724	41088100	8079.28
5075	2326	4550	1219	275625	1225449	1225.18
-4	7					
6	2					
3	-2					
-4	7	6	2	100	25	11.18
6	2	3	-2	9	16	5.00
-4	7	3	-2	49	81	11.40



x_1	y_1	x_2	y_2	$(x_2 - x_1)^2$	$(y_2 - y_1)^2$	$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
1	1	4	5	9	16	5
4	-4	1	-6	9	4	3.605551275
1	-6	-1	-3	4	9	3.605551275
-1	-6	-8	5	49	121	13.03840481
-8	5	3	-2	121	49	13.03840481
5	1	-5	-7	100	64	12.80624847
-5	-7	-3	6	4	169	13.15294644
-2	0	10	-14	144	196	18.43908891
10	-14	-4	-2	196	144	18.43908891
5075	2326	8436	4034	11296321	2917264	3770.090848
5986	3426	6336	8896	122500	29920900	5481.186003
8351	527	6687	4595	2768896	16548624	4395.170076
4550	1219	9468	7629	24186724	41088100	8079.283632
5075	2326	4550	1219	275625	1225449	1225.183252
-4	7	6	2	100	25	11.18033989
-4	7	3	-2	49	81	11.40175425
6	2	3	-2	9	16	5

Distance Graph

