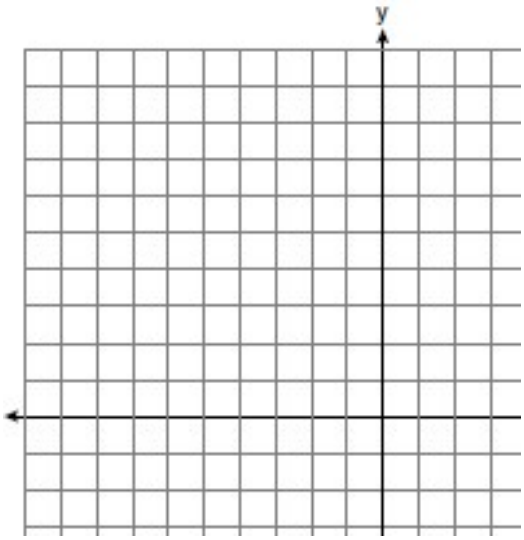
Name _____ Date _____
Mr. Schlansky Geometry

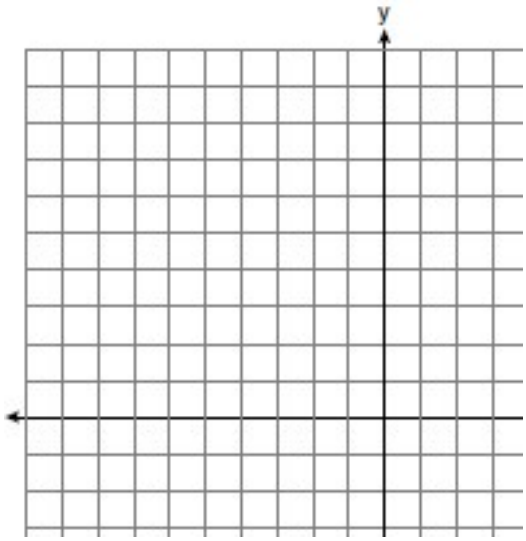
Calculating Distance

Calculate the distance between the following sets of points. Express in simplest radical form

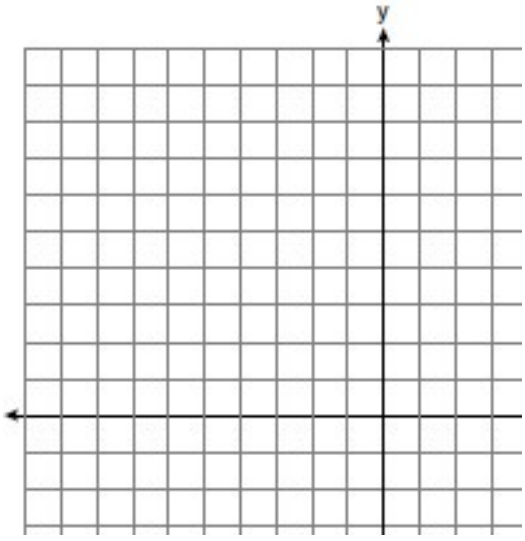
1. (5,1) and (2,5)



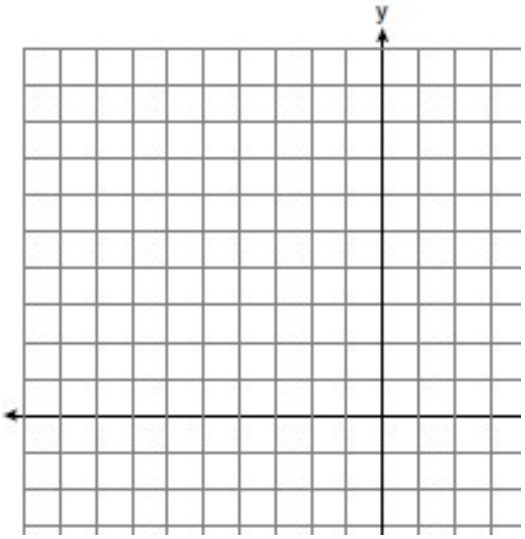
2. (9,1) and (1,-5)



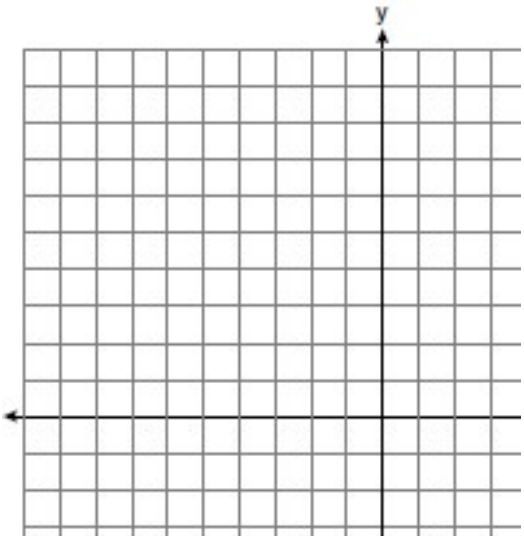
3. (2,5) and (-1,8)



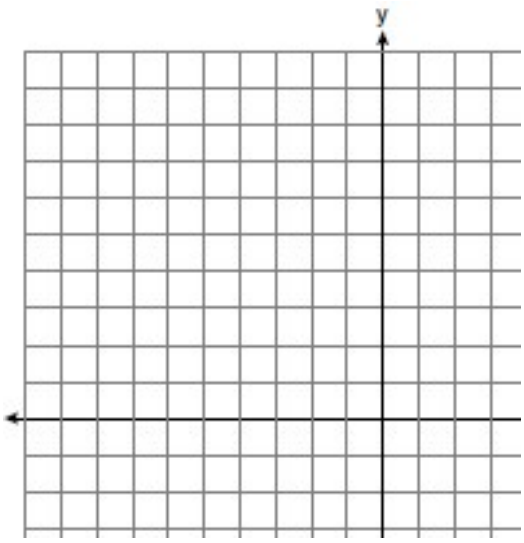
4. (3,1) and (9,0)



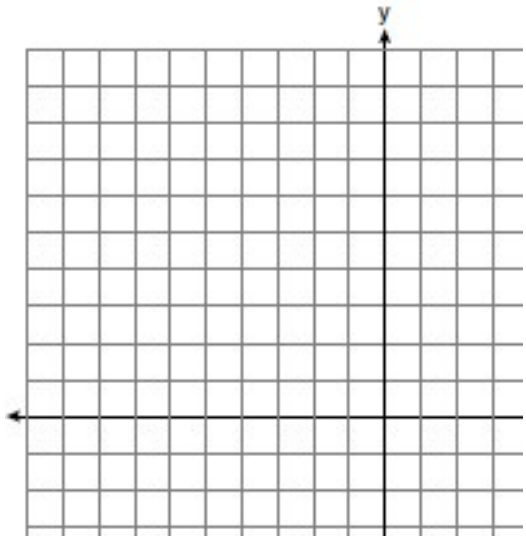
5. (-4,1) and (-1, 1)



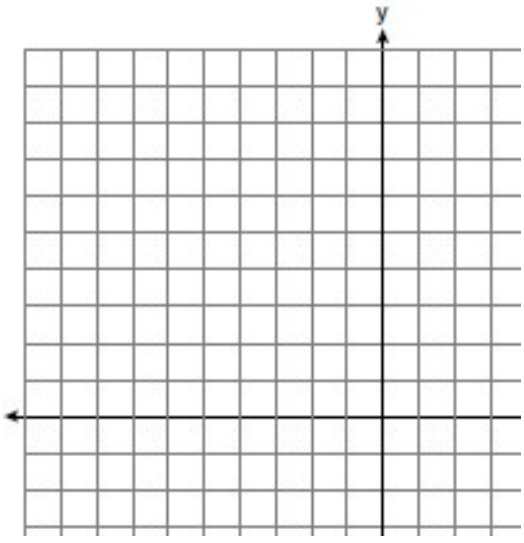
6. (10,-1) and (2, 4)



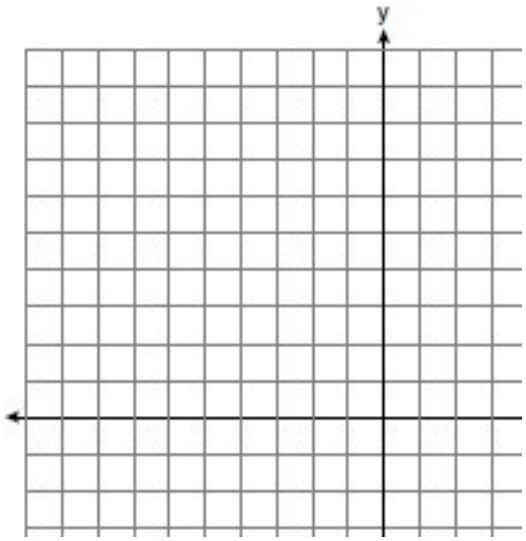
7. (-2,7) and (3, 4)



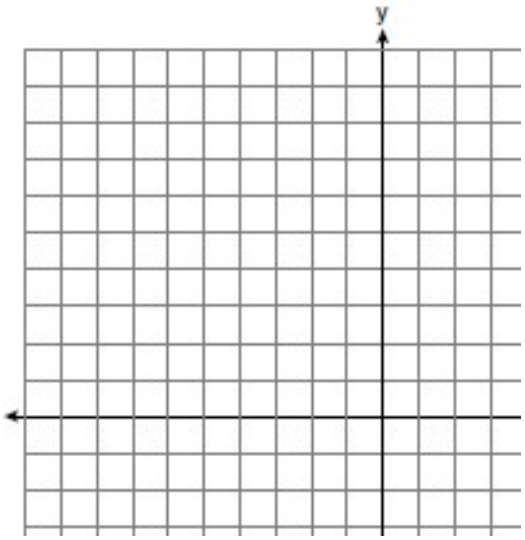
8. (9,0) and (-1, 5)



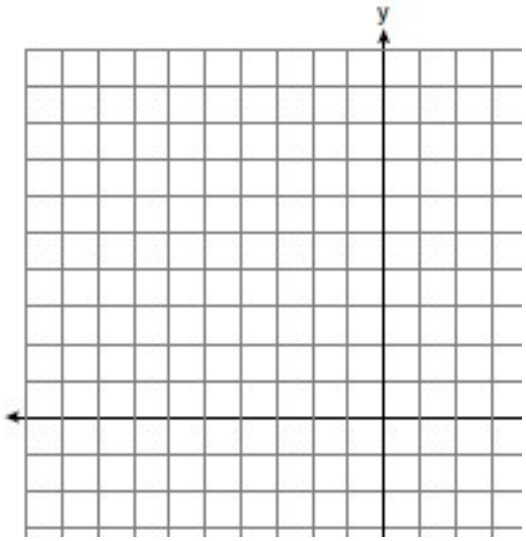
9. (-6,-3) and (-2, 1)



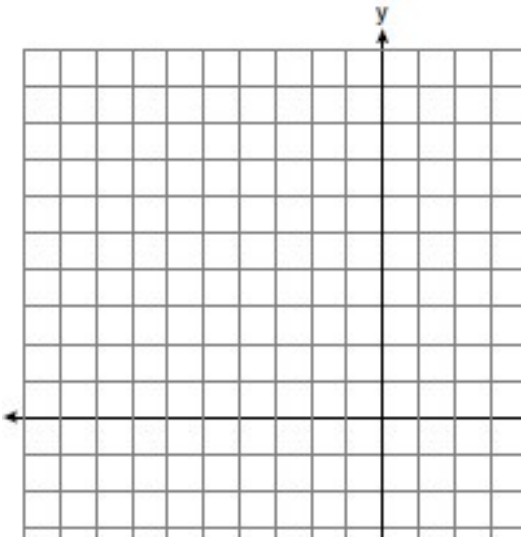
10. (9,-2) and (-4, 8)



11. (-4,7) and (-4, 6)



12. (-13,6) and (47, 2)



13. If the endpoints of $\overline{AB}$ are $A(-4, 5)$ and $B(2, -5)$, what is the length of $\overline{AB}$?

1) $2\sqrt{34}$
2) 2
3) $\sqrt{61}$
4) 8

14. What is the distance between the points $(-3, 2)$ and $(1, 0)$?

1) $2\sqrt{2}$
2) $2\sqrt{3}$
3) $5\sqrt{2}$
4) $2\sqrt{5}$

15. What is the length, to the *nearest tenth,* of the line segment joining the points $(-4, 2)$ and $(146, 52)$?

1) 141.4
2) 150.5
3) 151.9
4) 158.1

16. What is the length of the line segment with endpoints $(-6, 4)$ and $(2, -5)$?

1) $\sqrt{13}$
2) $\sqrt{17}$
3) $\sqrt{72}$
4) $\sqrt{145}$

17. In circle O, a diameter has endpoints $(-5,4)$ a
length of the diameter?

(1) $\sqrt{2}$
(2) $2\sqrt{2}$
(3) $\sqrt{10}$
(4) $2\sqrt{41}$