**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour \_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_ Score**

**Introduction to Vectors**

**Draw the vector described.**

1. Pi(3, 5) Pt(-4, 1) 2. Pi(-2, 4) Pt(6, 4) 3. Pi(5, 0) Pt(-2, 3)

4. Pi(-4,-2) Pt(-4, 6) 5. Pi(0, 2) Pt(-4, -4) 6. Pi(3, -3) Pt(-1, 4)



7.  8.  9. 



10.  11.  12. 

**Write the component form of each vector.**

13. 14. 15.



16. 17. 18.



19. . Pi(3, 5) Pt(-4, 1) 20. Pi(-2, 4) Pt(6, 4) 21. Pi(5, 0) Pt(-2, 3)

22. Pi(-4,-2) Pt(-4, 6) 23. Pi(0, 2) Pt(-4, -4) 24. Pi(3, -3) Pt(-1, 4)

25. Pi(12,-9) Pt(-7, 10) 26. Pi(0, -15) Pt(-40, 7) 27. Pi(23, -13) Pt(19, 7)



























28. Match up any two vectors in the drawing that are equal and list them.

29. Why are and  considered to be different vectors?