

Vectors in the plane

Reading

Section 13.1

Problems

- Practice Problems: 13.1 4, 5, 7, 9, 13, 15, 17, 21, 33, 39, 55, 56
- Problems to turn in: 13.1 12, 14, 20, 34, 46

Topics to know

1. Vectors in the plane specified by two points.
2. Translation of vectors, equivalent vectors.
3. Vector components, vector length.
4. Adding vectors, geometrically and algebraically.
5. Scalar multiple of a vector, geometrically and algebraically.
6. Basic algebraic vector properties.
7. Unit vectors and their components. Unit vector corresponding to a vector.
8. Linear combinations of vectors.
9. The standard unit vectors.
10. Triangle inequality.