

Pre-Calculus
6.3-6.4 Review Worksheet

Name _____

Find the component form of \vec{AB} . Then find the magnitude of \vec{AB} .

1. A (2, 4), B (-1, 3)

2. A (4, -2), B (5, -5)

3. A (-3, -6), B (8, -1)

Let $v = \langle 2, -1 \rangle$ and $w = \langle -3, 5 \rangle$. Find u and sketch the vector operations geometrically.

4. $u = v + w$

5. $u = v - w$

6. $u = 3v$

7. $u = w - 2v$

8. $u = 2v + 3w$

9. $u = 5w - 2v$

Find a unit vector for each vector.

10. $v = \langle -3, 4 \rangle$

11. $v = \langle 1, 5 \rangle$

Find the direction angle of each vector.

12. $u = 2i - 5j$

13. $u = -3i - 7j$

14. $u = 6i - 2j$

Find the component form of each vector.

15. $\|u\| = 20$, angle = 150°

16. $\|u\| = 10$, angle = 315°

