Multiply a Vector by a Scalar - Independent Practice Worksheet

Complete all the problems.

Find a vector perpendicular to both u and v.

1. u = (5, 0, 3) and v = (8, 2, 1)

2. u = (0, 1, 7) and v = (2, 4, 2)

3. u = (7, 8, 9) and v = (3, 5, 7)

4. u = (2, 3, 0) and v = (8, 3, 3)

5. u = (4, 6, 5) and v = (4, 0, 4)

Find the angle θ between the vectors u and v.

6. u = (2, -6, 3) and v = (9, 0, -1)

7. u = (3, 5, -2) and v = (-8, 1, 2)

8. u = (4, -4, 1) and v = (7, 2, 3)

9. u = (5, 3, 0) and v = (6, 3, 4)

10. u = (6, 2, -1) and v = (5, 4, 5)