

Math 2415

Concept Quiz Questions on 12.3 (Projections) and 12.4

1. State a formula for the vector projection of one vector onto another.
2. Draw a labeled picture illustrating what it means to project one vector onto another.
3. State a formula for the cross product of two vectors in terms of a determinant
4. State a formula relating $\mathbf{u} \times \mathbf{v}$ to $\mathbf{v} \times \mathbf{u}$
5. State a formula for the magnitude of the cross product and draw a picture that shows how to find the direction of the cross product
6. State a formula for the area of a parallelogram determined by two vectors
7. Sketch a parallelepiped