

# Vectors.

Fall 2015

Attendance Quizzes

September 18, 2015

## Practice Quiz 5 Vectors.

You are given the following information about the vectors  $v, w$ .

$$|v| = 7, |w| = 8 \text{ and } |v \times w| = 30.$$

What is the  $|v \cdot w|$ ?

**Answer:**  $(7)(8) * \sqrt{1 - \frac{30^2}{56^2}} = \sqrt{56^2 - 30^2} = 47.28636168$

What is the absolute value of the scalar projection of  $v$  on  $w$ ?

**Answer:**  $47.28636168/8 = 5.910795210$ .