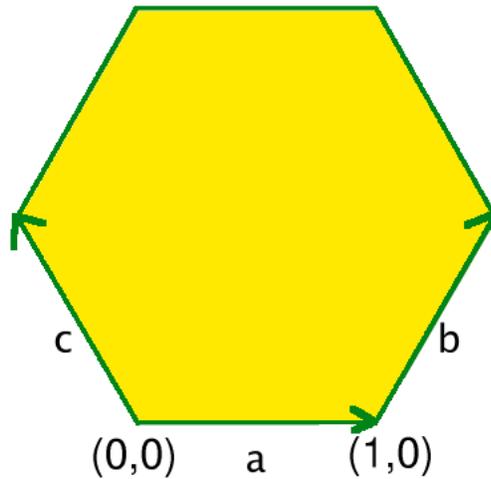


Consider the regular hexagon:



1) What is $|a|, |b|$?

2) Find without doing much computation the angle between a and b .
(Note that this is the angle when a, b have their origin at the same point!).

3) What is $a \cdot b$?

4) What is $\text{proj}_a(b)$?

¹Adapted from study Guide by Robert Burton and Dennis Garita