

11. Know all about the scalar product and how to use it to find the angle between vectors;

$$a \cdot b = |a||b|\cos\theta$$

$$a \cdot b = a_1b_1 + a_2b_2 + a_3b_3$$

12. Know what the properties of the scalar product are:

Perpendicular vectors have $a \cdot b = 0$

For vectors a & b: $a \cdot b = b \cdot a$

For vectors a, b & c: $a \cdot (b + c) = a \cdot b + a \cdot c$
