

Activity 2

$$a = 2i + 3j \quad b = 9i + aj$$

$$= (2i + 3j) \cdot (9i + aj) = 0$$

$$= (2 \cdot 9) + (3 - a) = 0$$

$$18 + 3a = 0$$

$$3a = -18$$

$$a = -6$$