If  $\vec{a}$ ,  $\vec{b}$  are unit vectors such that  $(\vec{a} + \vec{b}) \cdot \{(2\vec{a} + 3\vec{b}) \times (3\vec{a} - 2\vec{b})\} = 0$ , then angle between  $\vec{a}$  and  $\vec{b}$  is -

- (1) 0
- $(2) \pi/2$
- $(3) \pi$

(4) indeterminate

Ana   a =   I =
(a2+li). ((22+3li) x (32-21))=0
(a+I). (-4(axi) +9(ixa))=0
(a+Ii). 9 13 (II x a) 3 = 0
13 [a] - (Il xa) + Il · (Il xa)]=0
Sugar Distance
Las Par Simalos 2 A Toland
As (ax li) or (lixa) is always  I to a and li so oyn D  is identity.
- Angle is Indeterminate.

Date:\_\_\_\_