

2a/

$$a = (2, 1, 3)$$

$$b = (3, 2, -3)$$

$$a \times b = ((1 \times -3) - (3 \times 2), (3 \times 3) - (-3 \times 2), (2 \times 2) - (1 \times 3))$$

↓

$$-3 - 6, 9 - -6, 4 - 3$$

↓

$$a \times b = \underline{\underline{-9, 15, 1}}$$

2b/

$$\underline{\underline{45^\circ}}$$