



次の2つのベクトルのなす角を求めよ。

(1)  $\vec{a} = (2, 1), \vec{b} = (3, -6)$

(2)  $\vec{a} = (2, -3), \vec{b} = (-4, 6)$

(3)  $\vec{a} = (1, 1), \vec{b} = (1 - \sqrt{3}, 1 + \sqrt{3})$

(4)  $\vec{a} = (-3, 1), \vec{b} = (3 + \sqrt{3}, 3\sqrt{3} - 1)$

(5)  $\vec{a} = (7, -1), \vec{b} = (4, 3)$

(6)  $\vec{a} = (1, 3), \vec{b} = (-2, -1)$