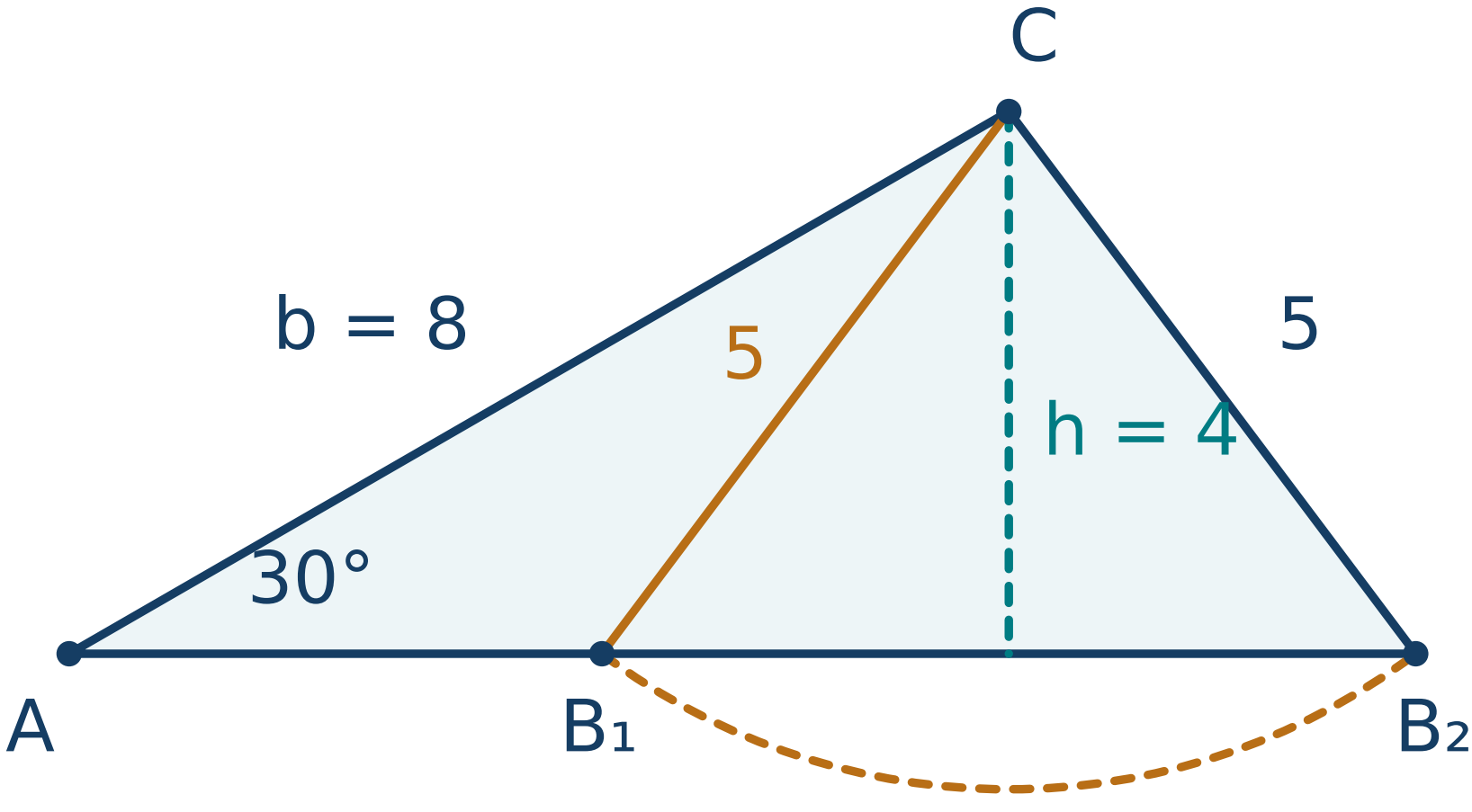


$AB_1 = 4\sqrt{3} - 3$; $AB_2 = 4\sqrt{3} + 3$