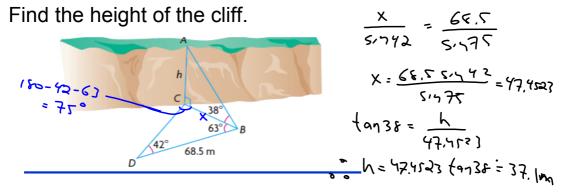
5.8

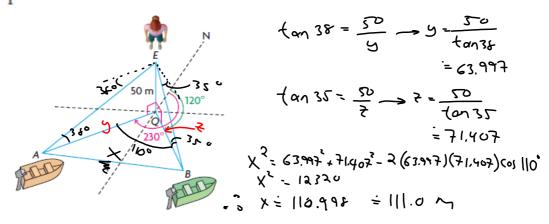
Solving Three-Dimensional Problems by Using Trigonometry

MAY 7

From point B, Manny uses a clinometer to determine the angle of elevation to the top of a cliff as 38° . From point D, 68.5 m away from Manny, Joe estimates the angle between the base of the cliff, himself, and Manny to be 42° , while Manny estimates the angle between the base of the cliff, himself, and his friend Joe to be 63° .



Emma is on a 50 m high bridge and sees two boats anchored below. From her position, boat A has a bearing of 230° and boat B has a bearing of 120°. Emma estimates the angles of depression to be 38° for boat A and 35° for boat B. How far apart are the boats to the nearest metre?



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