

11. Jayla is in the environmental club at school. As part of a community outreach program, they are planting trees around their neighborhood. The trees will need a support rope attached until the roots begin to grow to stand on their own. If the trees are 6 feet tall and the rope has to make an angle of 35° with the ground, how much support rope will they need? (Hint: You need 2 support ropes, one for each side!)

Picture	Work	Answer

12. Sumaai is standing on top of a cliff looking down at a boat. Her angle of depression to see the boat is 42° . If the boat is 12 km away from the base of the cliff, how tall is the cliff?

Picture	Work	Answer

13. $\triangle ABC$ has a right angle at vertex C. If the $\sin A = \frac{x}{y}$, what is the $\cos B$? Explain your reasoning. Draw a picture.