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Solution Step 1: Let's go through and understand this information. From our understanding of the information provided, we can paint below the picture. Step 2: In the image above, we need to give names for each position with alphabets. Human position --- > Pole position --- > B Human eye level --- > E Pole Vertex ---> D Pole Point corresponding to eye level ---> C Now, from the above diagram, pole height - BD. And also, $BD = BC + CD$ In the diagram above, we have $AE = BC$ $AE = 1.2$ m So, $BC = 1.2$ m. Step 3: Now our goal is to get the length of the CD. Once the CD is known to us, we can get BD length using $BD = BC + CD$. Step 4: In the right-angle CDE triangle, the CD is the opposite side, and the EC is adjacent to the side, and this is known to be 10m. Step 5: In the triangle of the right corner of the CDE, we have to find the length of the opposite side (CD), and the known side is the adjacent side (EC= 10m). Step 6: In this problem, we have to use a trigonometry ratio in which we have the opposite side and the adjacent side. Because the length of the adjacent side (EC = 10m) is known and we have to find the length of the opposite (CD). Step 7: We can use trigonometry ratio tanning in this word problem. Because, only in the tan, we have the opposite side and the adjacent side. Now let's see how to find the length of the CD. Step 8: $\tan 60^\circ = \frac{OPP}{adj} \sqrt{3} = \frac{CD}{EC} \sqrt{3} = \frac{CD}{10} 10\sqrt{3} = CD 10 \cdot 1.732 = CD 17.32 = CD$ Step 9: Pole length $BD = BC + CD$ $BD = 1.2 + 17.32$ $BD = 18.52$ So the pole length is 18.52 m. Trigonometry Cheat Sheet pdf You can also carry this PDF with the Trig cheat sheet we made up for you. This should cover the basics of all sorts of trigonometry problems. For more practice on trigonometry issues and detailed step-by-step explanations, please visit Trigonometry Problems. Summary trigonometry functions are used to determine the properties of any angle, relationships in any triangle, and graphs of any repeating cycle. Studying trigonometry will help you understand, visualize, and count these relationships and cycles. If you're studying on your own while staying attentive in the classroom, you'll learn basic trigonometry concepts and probably start discovering cycles in the world around you by generalizing all the concepts you've learned so far to create your own Cheatsheet Trigonometry and turn to it for better results. Author: Gargi Shrivastava, Cuemat teacher

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