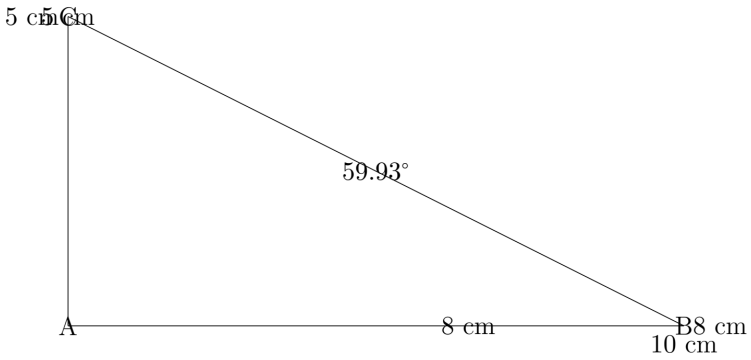
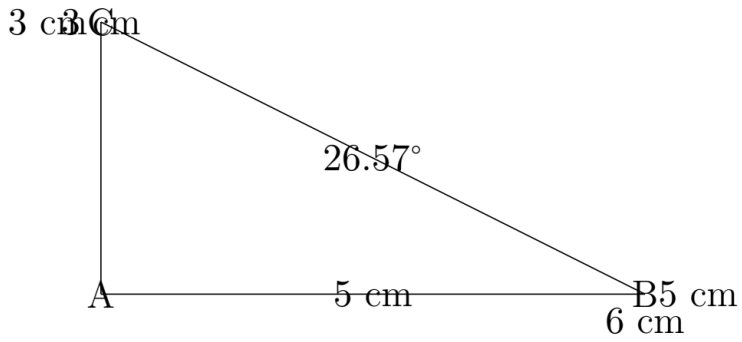
Pattern 0: Right Triangle Sine, Cosine, Tangent

Question 1: If sin(59.93°) = 5/10, what is cos(59.93°) if the adjacent side is 8 units?



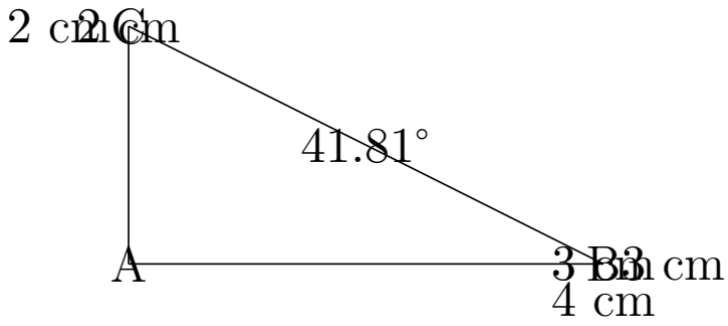
Answer: *cos(59.93°) = adjacent/hypotenuse = 8/10 = 0.8*

Question 2: Find the value of sin(26.57°) if the opposite side is 3 units and the hypotenuse is 6 units.



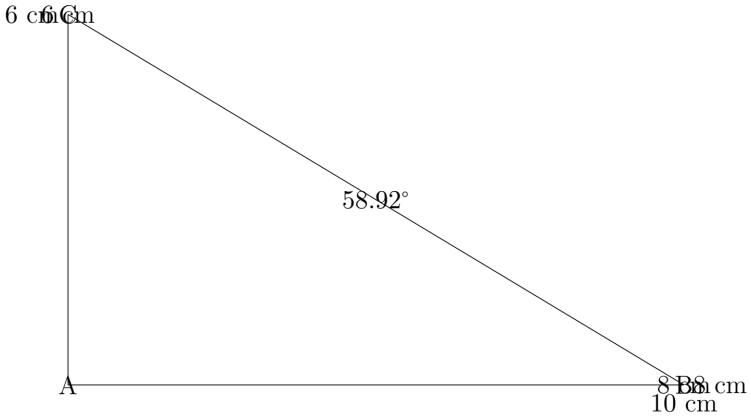
Answer: *sin(26.57°) = opposite/hypotenuse = 3/6 = 0.5*

Question 3: Find the value of cos(41.81°) if the adjacent side is 3 units.



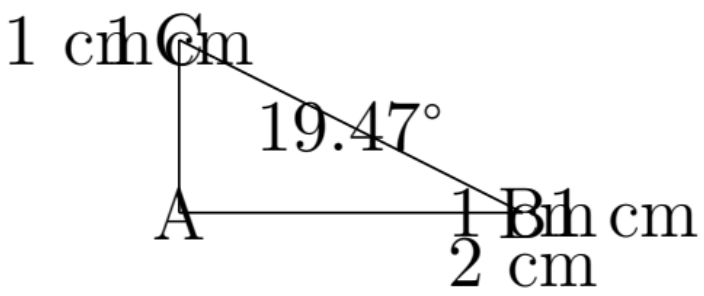
Answer: *cos(41.81°) = adjacent/hypotenuse = 3/4 = 0.75*

Question 4: If cos(58.92°) = 8/10, find the length of the opposite side.



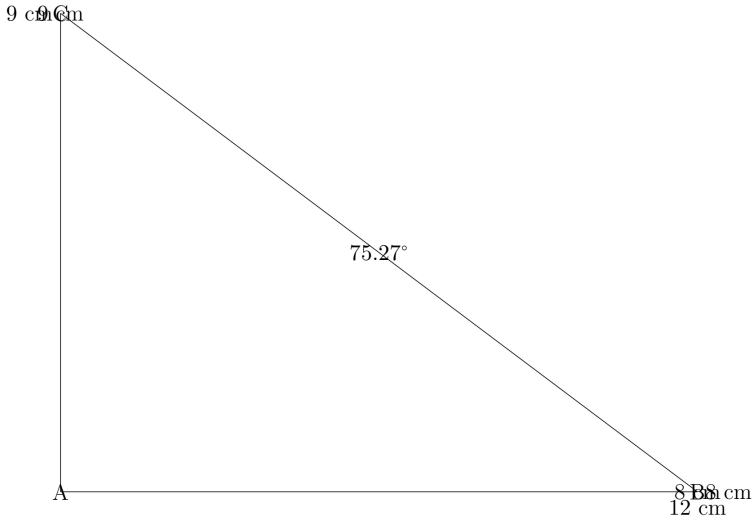
Answer: *sin(58.92°) = opposite/hypotenuse = 6/10 = 0.6*

Question 5: Find the value of tan(19.47°) if the opposite side is 1 unit and the adjacent side is 1 unit.



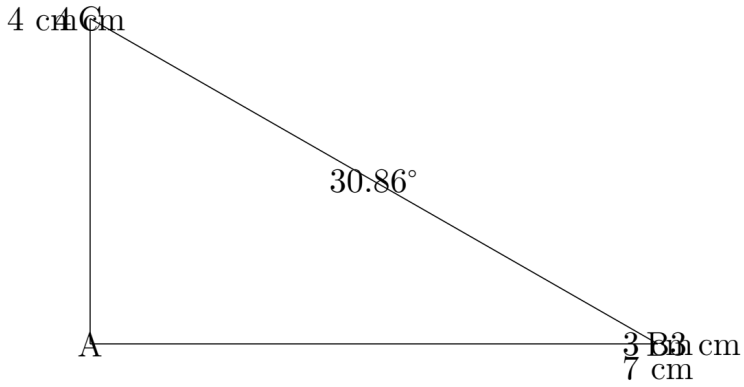
Answer: *tan(19.47°) = opposite/adjacent = 1/1 = 1*

Question 6: If sin(75.27°) = 9/12, find the length of the adjacent side.



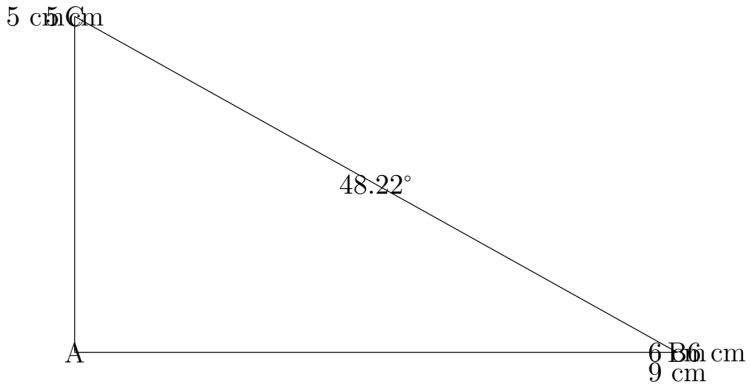
Answer: *cos(75.27°) = adjacent/hypotenuse = 8/12 = 0.67*

Question 7: Find the value of tan(30.86°) if the opposite side is 4 units and the adjacent side is 3 units.



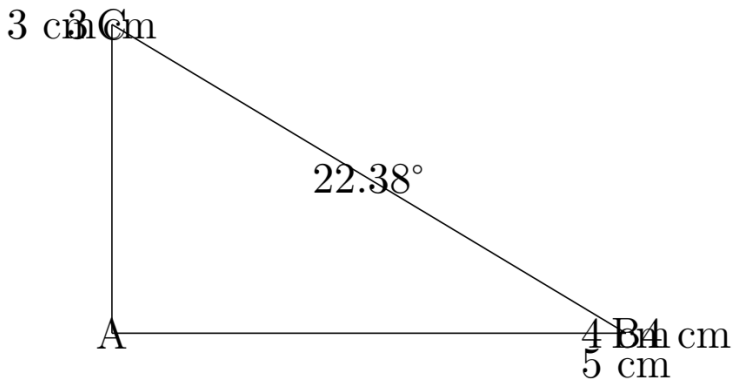
Answer: *tan(30.86°) = opposite/adjacent = 4/3 = 1.33*

Question 8: If cos(48.22°) = 6/9, find the length of the opposite side.



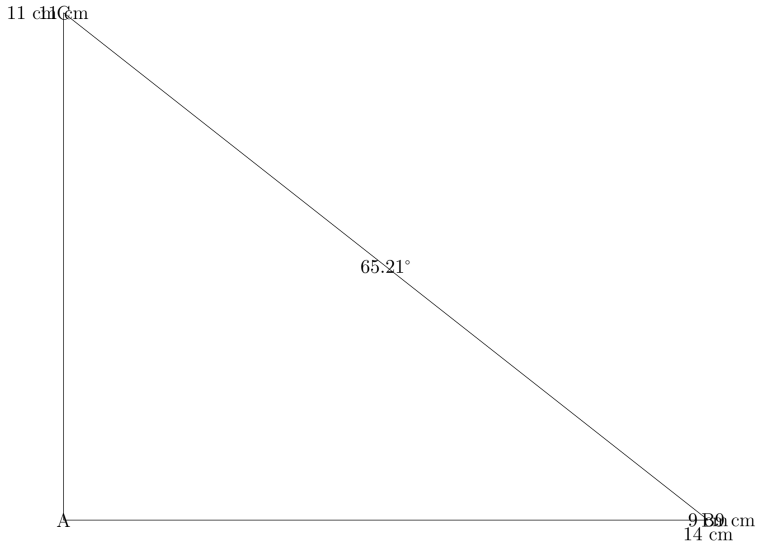
Answer: *sin(48.22°) = opposite/hypotenuse = 5/9 = 0.56*

Question 9: Find the value of sin(22.38°) if the opposite side is 3 units and the hypotenuse is 5 units.



Answer: *sin(22.38°) = opposite/hypotenuse = 3/5 = 0.6*

Question 10: If cos(65.21°) = 9/14, find the length of the opposite side.



Answer: *sin(65.21°) = opposite/hypotenuse = 11/14 = 0.79*