

Trigonometry Quiz 1 [2020]

1. Solve for the side, rounded to the nearest tenth.

a) $\frac{8.5}{\sin 42} = \frac{x}{\sin 65}$

[2]

b) $x^2 = 4^2 + 7^2 - 2(4)(7)\cos 72$

2. Solve for the angle, rounded to the nearest degree.

a)

$$\tan B = \frac{8}{5}$$

[3]

b)

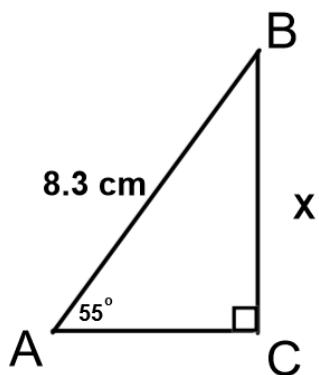
$$\frac{25}{\sin A} = \frac{18}{\sin 33}$$

c)

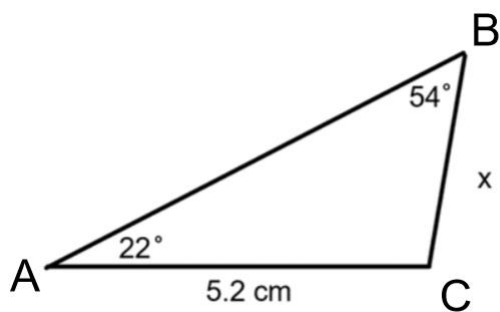
$$\cos C = \frac{6^2 + 12^2 - 10^2}{2(6)(12)}$$

2. Given $\triangle ABC$ label the sides using a , b and c . Find the length of the side indicated, round to one decimal place.

a)

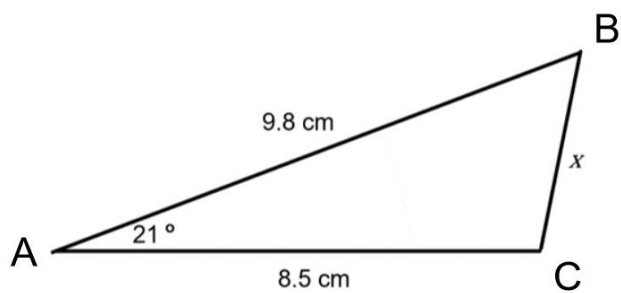


b)

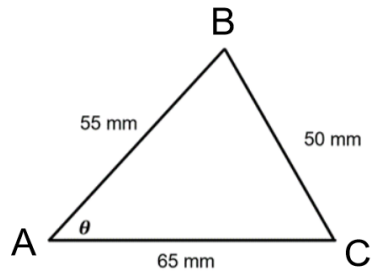


[6]

c)

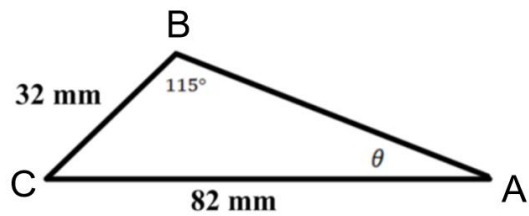


3. Given $\triangle ABC$ label the sides using a, b and c. Find the measure of the angle indicated, round to a whole number.
- a)



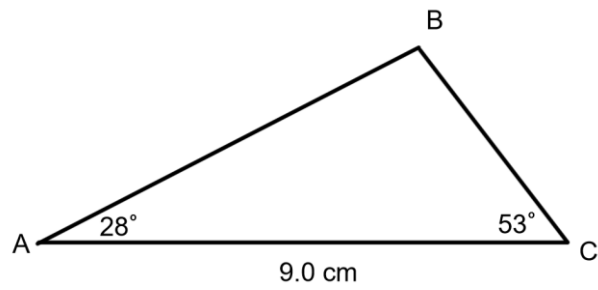
[4]

b)



4. Solve the triangle.

[3]



5. Complete at least one of the Sudoku puzzles.

	1	3	4	5	6
		4	3	1	2
6		2	5		
				4	
					5

[1]

		6	2	3	4
2			5	6	1
		1	3		6
			6		
4					

6. Complete the Diamond Math Problems. The TOP cell contains the product (multiply) of the numbers in the left and right cells, while the bottom cell contains the sum (add).



(1) $\begin{array}{c} \diagup \quad \diagdown \\ 6 \quad 5 \\ \diagdown \quad \diagup \end{array}$ (2) $\begin{array}{c} \diagup \quad \diagdown \\ 4 \quad 13 \\ \diagdown \quad \diagup \end{array}$ (3) $\begin{array}{c} \diagup \quad \diagdown \\ 8 \quad 7 \\ \diagdown \quad \diagup \end{array}$ (4) $\begin{array}{c} \diagup \quad \diagdown \\ 11 \quad 6 \\ \diagdown \quad \diagup \end{array}$

[2]

(5) $\begin{array}{c} \diagup \quad \diagdown \\ 70 \\ 10 \end{array}$ (6) $\begin{array}{c} \diagup \quad \diagdown \\ 4 \quad 7 \\ \diagdown \quad \diagup \end{array}$ (7) $\begin{array}{c} \diagup \quad \diagdown \\ 11 \\ 15 \end{array}$ (8) $\begin{array}{c} \diagup \quad \diagdown \\ 8 \\ 10 \end{array}$

(9) $\begin{array}{c} \diagup \quad \diagdown \\ 14 \\ 9 \end{array}$ (10) $\begin{array}{c} \diagup \quad \diagdown \\ 20 \\ 12 \end{array}$ (11) $\begin{array}{c} \diagup \quad \diagdown \\ 33 \\ 14 \end{array}$ (12) $\begin{array}{c} \diagup \quad \diagdown \\ 70 \\ 19 \end{array}$