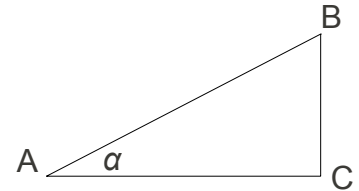


TOTAL	SUM	MARKS
10		

NAME	GROUP
------	-------

1. In a full body picture of your friend and you, your friend's measurement is $6,5\text{ cm}$ while yours is 7 cm . Find out your friend's real height.
Note: Use your own real height as a data.

2. Solve the triangle beside, where $\text{tg } \alpha = 0,75$ and $\overline{BC} = 6$.



3. i. Explain briefly what a radian is. Sketch a graph with your explanation.
ii. Evaluate the equivalence in radians for the angle of 225° .
iii. Evaluate the equivalence in degrees for the angle of 2 rad .

4. i. What's the meaning of 'reducing angles to the first quadrant'? Give some examples.
ii. Find out which angles laying on the first quadrant can the following angles be reduced to: 150° , 225° e 330° .

- iii. Evaluate the trigonometric ratios (sine, cosine and tangent) of the angles of 210° and 240° , as we know that $\sin 30^\circ = 0,5$.

5. Solve the trigonometric equation $3 \sin x - 2 \cos^2 x = 0$.

6. i. What's the difference between an equation and an identity? Give an example in trigonometric terms.

- ii. Proof the following trigonometric identity: $\sec^2 \alpha - \text{tg}^2 \alpha = 1$.

7. As we go walking along the seaside we can see the top of Monte Louro just in front of us with an elevation of 10° . When we walk 950 m in the same direction, the angle changes to 30° . Work out the height of the mount.

Mínimos 4º ESO

- | | | | | | |
|--|-------|---|-------|---|-------|
| <input type="checkbox"/> Área e perímetro de cuadrados, rectángulos e triángulos | FICHA | <input type="checkbox"/> Uso de parénteses | FICHA | <input type="checkbox"/> Raíces; extracción de factores | FICHA |
| <input type="checkbox"/> Operacións con fraccións e decimais | FICHA | <input type="checkbox"/> Suma, resta, multiplicación e división de números naturais | FICHA | <input type="checkbox"/> Igualdades notáveis | FICHA |
| <input type="checkbox"/> Regra dos signos | FICHA | <input type="checkbox"/> Potências de expoente natural e propiedades | FICHA | <input type="checkbox"/> Álgebra de polinómios | FICHA |
| <input type="checkbox"/> Operacións con números inteiros | FICHA | <input type="checkbox"/> Área e perímetro do círculo | FICHA | | |
| <input type="checkbox"/> Cálculo do MCD e mcm | FICHA | <input type="checkbox"/> Potências de expoente inteiro | FICHA | | |

DESCONTA

RECUPERA