$x^2 + x - 420 = 0$

$P = -420$

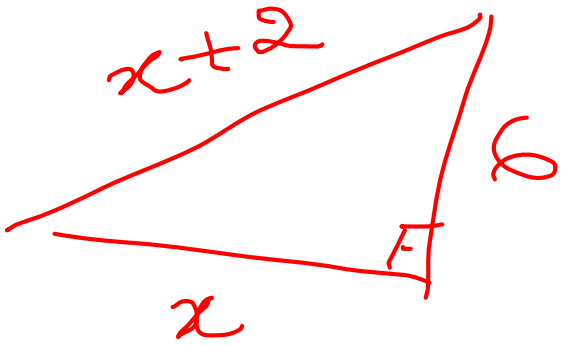
$S = -1$

$+20$
-21

$+21$
-20

$x' = 20$

$x'' = -21$



Pitágoras:

$$(x+2)^2 = x^2 + 6^2$$

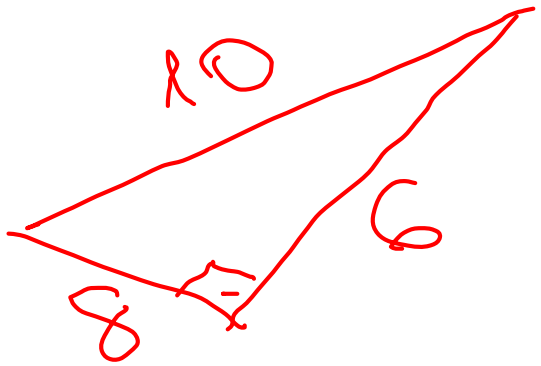
$$x^2 + 4x + 4 = x^2 + 36$$

$$x^2 + 4x + 4 - x^2 - 36 = 0$$

$$4x - 32 = 0$$

$$4x = 32$$

$$x = \frac{32}{4} \rightarrow x = 8$$



61 é primo?

$$\begin{array}{r|l} 61 & 2 \\ 01 & 30 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 61 & 3 \\ 01 & 20 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 61 & 5 \\ 11 & 12 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 61 & 7 \\ 5 & 8 \end{array}$$

$$\begin{array}{r|l} 61 & 11 \\ 6 & 5 \end{array}$$

menor que o divisor

$$\begin{array}{r|l} 61 & 13 \end{array}$$

14/8/20 - Física

$-49°F$ → °C ?

$-49°F$ → K ?

$$\frac{C}{5} = \frac{F-32}{9} = \frac{K-273}{5}$$

$$\frac{C}{5} = \frac{-49-32}{9}$$

$$\frac{C}{5} = \frac{-81}{9}$$

$$\frac{C}{5} = -9 \longrightarrow \boxed{C = -45°C}$$

$$\frac{C}{5} = \frac{K-273}{5}$$

$$-45 = K - 273$$

$$-45 + 273 = K$$

$$\boxed{K = 228K}$$

b

$$\begin{array}{r} 273 \\ -45 \\ \hline 228 \end{array}$$

$$\frac{C}{5} = \frac{F - 32}{9}$$

$$\frac{C}{5} = \frac{400 - 32}{9}$$

$$\frac{C}{5} = \frac{368}{9}$$

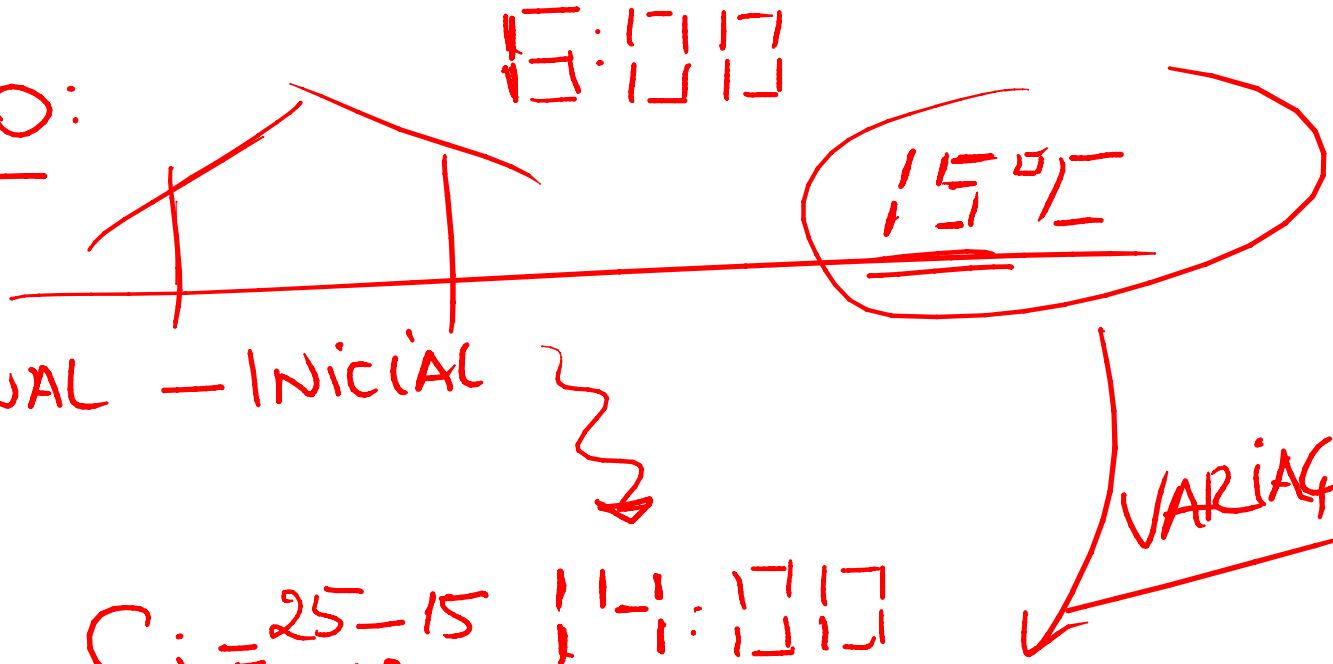
$$9C = 368 \cdot 5$$

$$C = \frac{1840}{9} \cong 204{,}4\,°C$$

$$\begin{array}{r} {}^{3}{}^{4}\\ 368 \\ \times\ 5 \\ \hline 1840 \end{array}$$

$$\begin{array}{r|l} 1840 & 9 \\ \cline{2-2} 040 & 204{,}44 \\ 40 & \\ \cline{1-1} 40 & \\ \cline{1-1} 0 & \end{array}$$

DESAFIO:



VARIAÇÃO = FINAL − INICIAL

$\Delta C = ?$

$*\Delta C = C_f - C_i = 25 - 15$

$= 10°C$

$*\Delta F = ? \; F_f - F_i$

$\Delta C = C_f - C_i$

$25 - 15 = 10°C$