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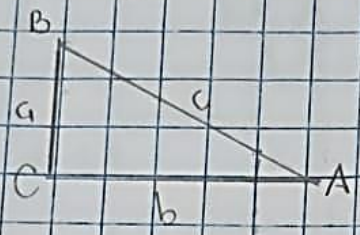
45. Encuentra los elementos del siguiente triangulo rectangulo y anota cada respuesta



45. $\angle A = 25°$ y $c = 15$ cm

Respuesta.

$\cos(25°) = \frac{b}{15} = 13.59$ cm

$\sin(25°) = \frac{a}{15} = 6.33$ cm

$180° - (25° + 90°) = 65°$

$\angle A = 25°$
$\angle B = 65°$
$\angle C = 90°$

$c = 15$ cm
$b = 13.59$ cm
$a = 6.33$ cm

46. $\angle B = 48°$ y $a = 7$ cm

$\tan(48°) = \frac{b}{7} = 7.7$ cm

$c^2 = \sqrt{7^2 + 7.7^2}$

$c^2 = 7^2 + 60.43$

$\sqrt{c^2} = \sqrt{109}$

$c = 10.46$

$\angle A = 42°$
$\angle B = 48°$
$\angle C = 90°$

$a = 7$ cm
$b = 7.7$ cm
$c = 10.46$ cm

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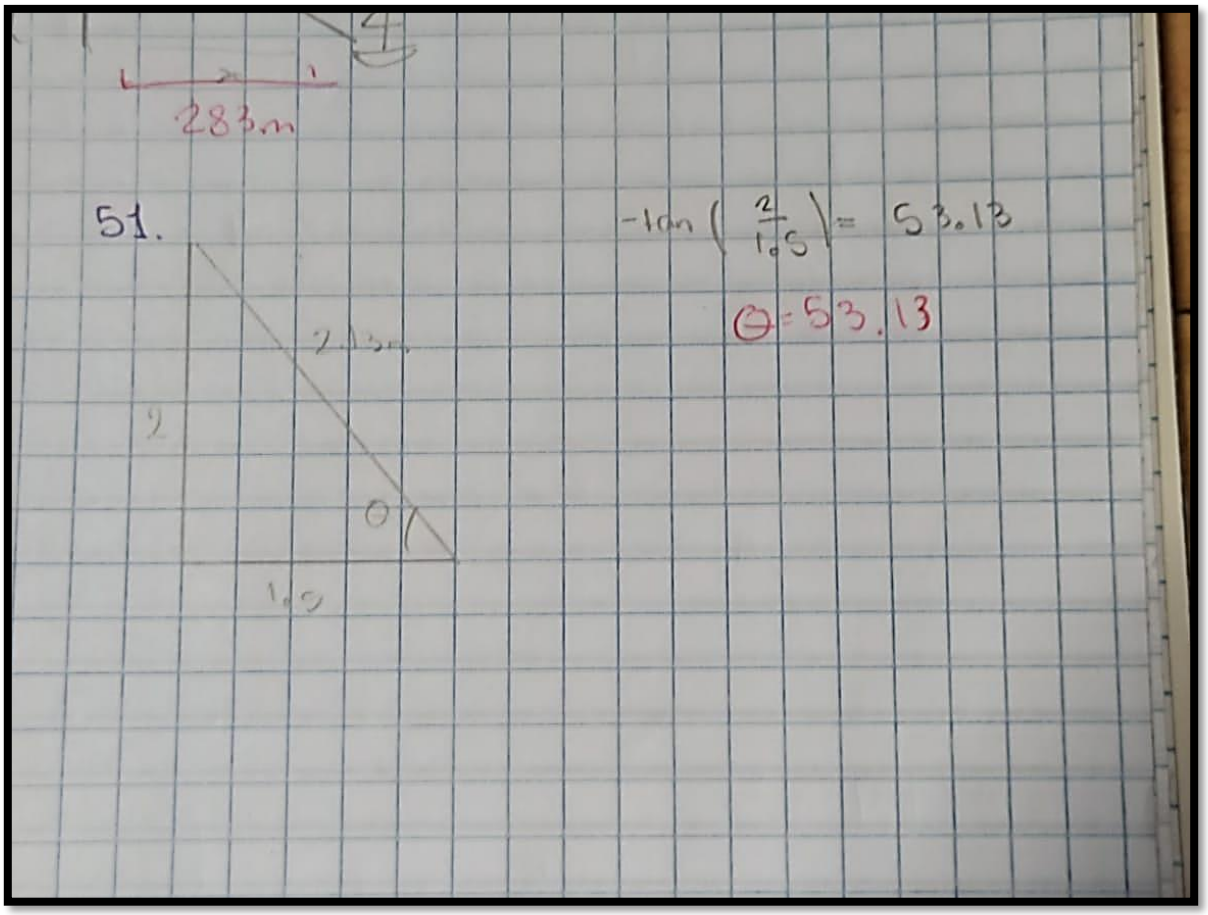

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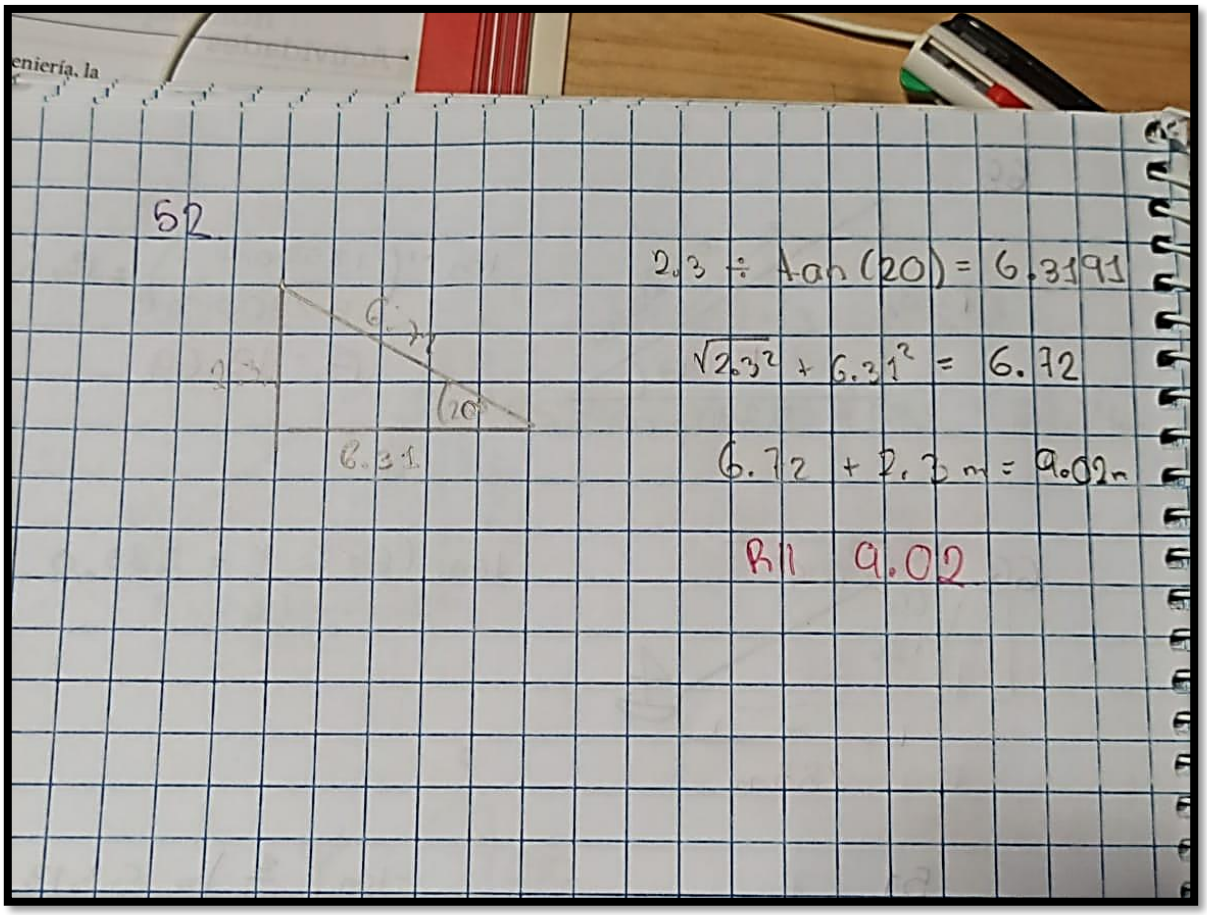

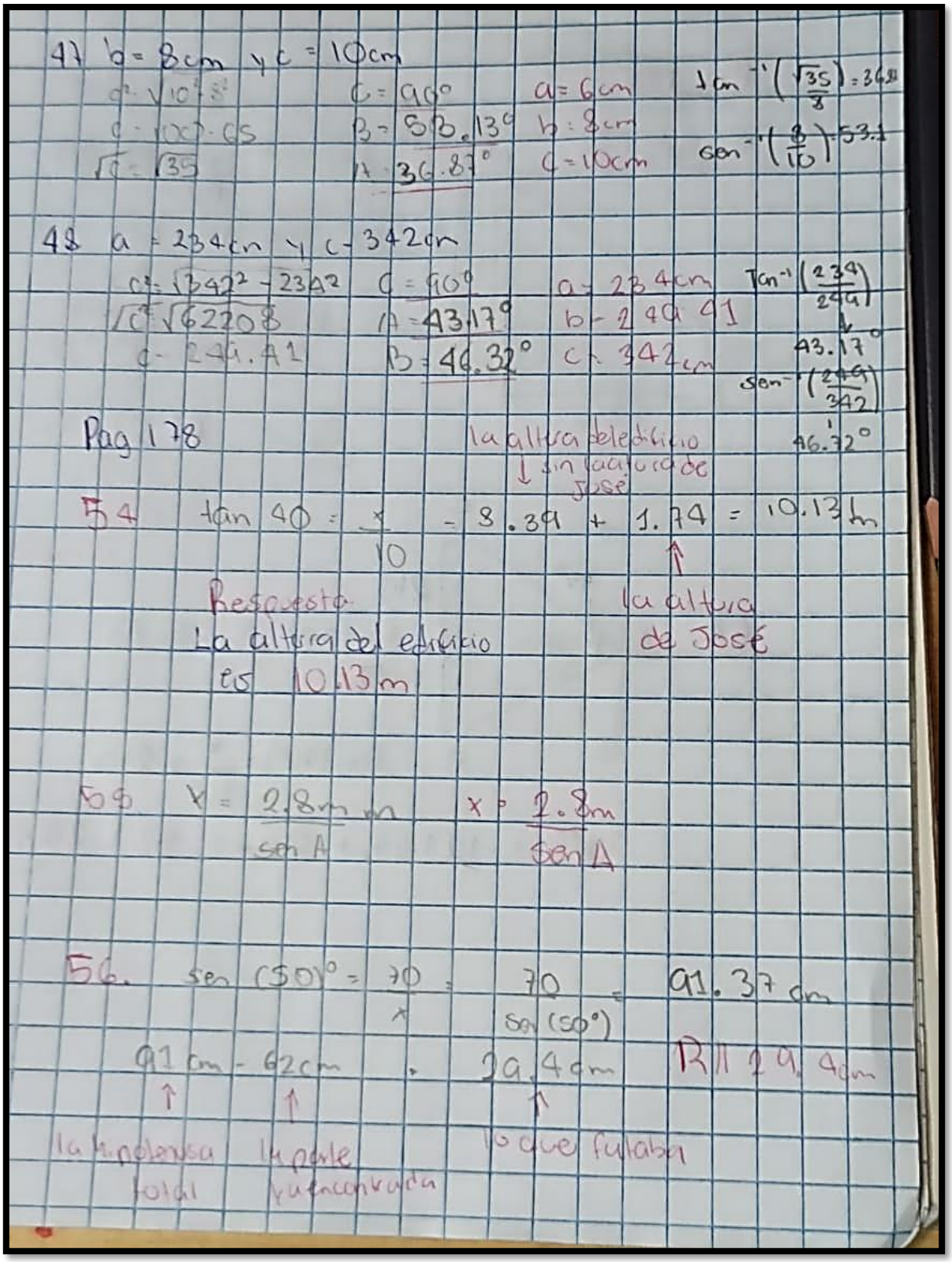

41 $b = 8cm$ y $c = 10cm$

$a^2 = \sqrt{10^2 - 8^2}$ $C = 90°$ $a = 6cm$ $\tan^{-1}\left(\frac{\sqrt{35}}{8}\right) = 36.8°$

$a = \sqrt{100 - 64}$ $B = 53.13°$ $b = 8cm$

$\sqrt{a} = \sqrt{36}$ $A = 36.87°$ $c = 10cm$ $\text{Sen}^{-1}\left(\frac{8}{10}\right) = 53.1$

48 $a = 234cm$ y $c = 342cm$

$c = \sqrt{342^2 - 234^2}$ $C = 90°$ $a = 234cm$ $\tan^{-1}\left(\frac{234}{249.41}\right)$

$\sqrt{c} = \sqrt{62208}$ $A = 43.17°$ $b = 249.41$ $43.17°$

$c = 249.41$ $B = 46.32°$ $c = 342cm$ $\text{Sen}^{-1}\left(\frac{234}{342}\right)$

$46.32°$

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la altura del edificio = la altura de José

54 $\tan 40 = \frac{x}{10}$ $= 8.39 + 1.74 = 10.13m$

Respuesta: La altura del edificio es 10.13 m

55 $x = \frac{2.8m}{\text{Sen } A}$ m $x = \frac{2.8m}{\text{Sen } A}$

56. $\text{Sen}(50)° = \frac{70}{x}$ $= \frac{70}{\text{Sen}(50°)}$ $= 91.37cm$

$91cm - 62cm = 29.4cm$ R// 29.4cm

la hipotenusa total — la parte encontrada — lo que faltaba

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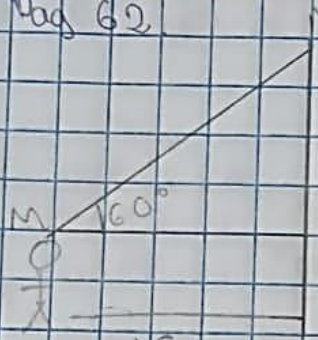


$\tan(60°) \cdot \frac{x}{15} = 25.98$

$25.98 \quad 25.98 + 1.81 = 27.79\text{m}$

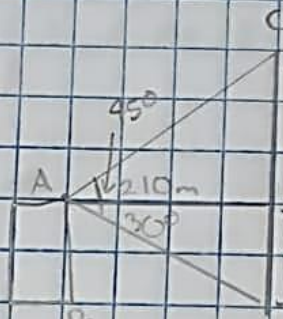
la altura no completa

altura del personaje

R// 27.79m

altura completa

64.



$\tan(30°) \frac{x}{210} = 70\sqrt{3}$

$\tan(45°) = \frac{x}{210} = 210$

$70\sqrt{3} = 121.24\text{m} + 210\text{m} = 331.24\text{m}$

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