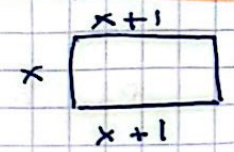
de ejercicios

27.



a) $P = 92$

$P = 4x + 2 = 92$

$4x = 90$

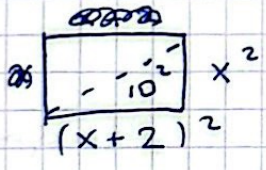
$x = 22'5$ cm: NO ES Z (entero)

b) $4x + 2 = 106$

$4x = 104$

$x = 26$ cm = SI ES Z (entero)

46.



$x^2 + (x+2)^2 = 10^2$ → $x^2 + x^2 + 2 + 4x = 100$

$2x^2 + 4x - 96 = 0$

$x^2 + 2x - 48 = 0$

$a = 1$, $b = 2$, $c = -48$

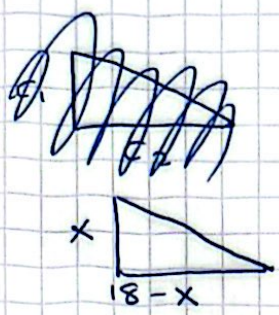
$1x^2 + 2x - 48 = 0$

$6 - 8 = -2$ | $6 \cdot 8 = -48$

6

-8

48.



$x^2 + (18-x)^2 = 40^2$

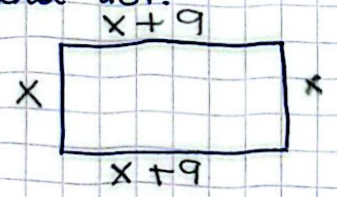
$x^2 + 324 - x^2 - 36x = 1600$

$-36x = 1276$

$x = -35'4$

10/02/2025

1. Página 134.



$A = b \cdot h$ (altura)

$400 = x \cdot (x+9)$

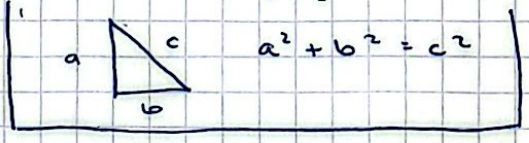
$400 = x^2 + 9x$

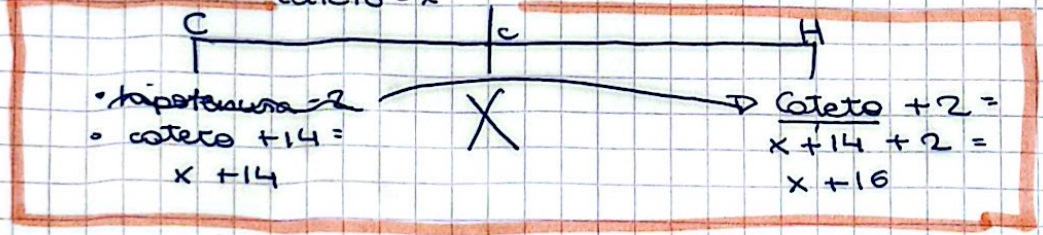
$0 = x^2 + 9x - 400$

$a = 1$, $b = 9$, $c = -400$

PROBLEMAS RESUELTOS: 1 (página 134)

Cateto $x+14$



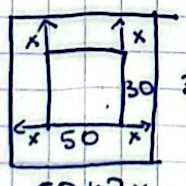


$(x+14)^2 + x^2 = (x+16)^2$

$x^2 + 196 + 28x + x^2 = x^2 + 256 + 32x$

$x^2 - 4x - 60 = 0$

2. (ejemplo)



$A = b \cdot h$

$516 = (50+2x)(30+2x)$

$516 = 1500 + 100x + 60x + 4x^2$

$-4x^2 - 160x - 984 = 0$

$0 = 4x^2 + 160x + 984$

2. Página 134.

$A_O = \pi \cdot R^2$

$24871'94 = 3'14 \cdot (r+x)^2$

$A_\circ = \pi R^2$

$22686'5 = 3'14 \cdot x^2$

$\sqrt{7221'9} = x$

$\pm 26'9 = x$

$$\frac{24871'94}{3'14} = r^2 + 26'9^2 + (2 \cdot 26'9 \cdot r)$$

$7921 =$