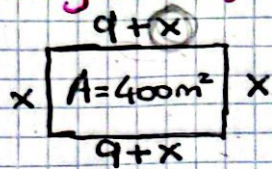


Pag 134 ej 1



$$x(x+9) \rightarrow \frac{x^2+9x}{2} = 400 \rightarrow x^2+9x-800=0$$

Viernes 7 de febrero 2025

Pag 134 ej 2



$$\pi \cdot r^2 = 22686.5 \text{ m}^2 \rightarrow \sqrt{\frac{22686.5}{3.14}} = 85$$

$$\pi(85-x)^2 = 22686.5 + 2185.44$$

$$\pi(85-x)^2 = 24871.94 \rightarrow x = \sqrt{\frac{24871.94}{3.14}} \rightarrow x = 4 \text{ m}^2$$

Pag 136 ej 1

Mujeres Hombres $\rightarrow 40\% = 0.4$

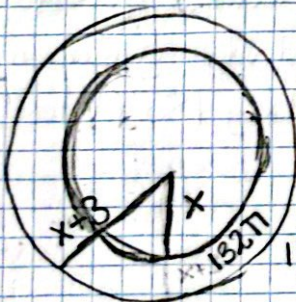
$$31+x + x+8 \rightarrow 2x+39 \rightarrow 0.4(2x+39) = x+8 \rightarrow$$

$$0.8x+15.6 = x+8 \rightarrow 7.6 = 0.2x \rightarrow 38 = x$$

$$38+8 = 46 \text{ hombres } 38+31 = 69 \text{ mujeres}$$

Lunes 10 de febrero 2025

Pag 139 ej 41



$$A_{\text{corona}} = A_c - A_i$$

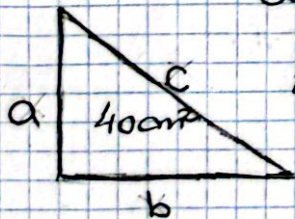
$$\pi R^2 - \pi r^2$$

$$132\pi = \pi \cdot (x+3)^2 - \pi \cdot x^2 \rightarrow \frac{132\pi}{\pi} = \frac{\pi(x+3)^2}{\pi} - \frac{\pi \cdot x^2}{\pi}$$

$$132 = x^2 + 9 + 6x - x^2$$

Pag 140 ej 48

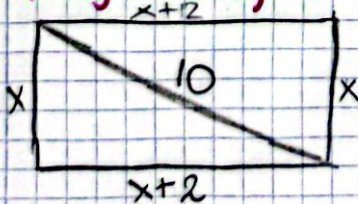
$$a^2 + b^2 + c^2 \quad \frac{18}{x \quad 18-x}$$



$$A = \frac{b \cdot h}{2} = \frac{x(18-x)}{2} = 40 \rightarrow 18x - x^2 = 80$$

$$18x - x^2 = 80$$

Pag 140 ej 46

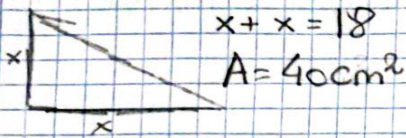


$$x^2 + (x+2)^2 = 10^2 \rightarrow x^2 + x^2 + 4 + 4x = 10^2$$

$$4x = 96 \rightarrow x = 96/4 = 24$$

Miércoles 12 de febrero 2025

Pag 140 ej 48



Pag 135 ej 5

$$\frac{20x}{100} + \frac{30x}{100} + \frac{50x}{100} = \frac{30x}{100} + 300$$
$$\frac{1}{5} \quad \frac{3}{10} \quad \frac{1}{2}$$

1. En un colegio hay 1230 alumnos el n° de alumnas supera 150 al de alumnos.

$$2x = 1230 - 150 \rightarrow x = 1080 / 2 = 540 \text{ niños} \rightarrow 690 + 540 = 1230$$

2. El precio de un balón depende de su uso el de baloncesto cuesta 10\$ y el de fútbol 5\$. Si en total he pagado 90\$ ¿Cuántos balones tengo en total?

$$5x + 10x = 90 \rightarrow x = 90 / 15 = 6 \text{ balones de cada uno, en total } 12$$

3. Se tiene el mismo n° de cajas de manzanas que de limones, si en una caja de manzanas caben 13 unidades y en una de limones caben 17, además en total hay 180 frutas, ¿Cuántas cajas hay?

$$13x + 17x = 180$$

Pag 139 ej 29

Pasado	35	8	4
Presente	_____	_____	_____
Futuro	$35+x$	$8+x$	$4+x$

$$35+x = 8+x+4+x$$

$$23 = x$$

Jueves 6 de febrero 2025

Pag 139 ej 26

Datos

Subido 15%

P. inicial

$$100 + 15\% = 115$$

P. final

$$100 - 20\% = 80\%$$

bajado 20%

Precio total $\rightarrow 6'96€$

$$115 \cdot 0.8 = x - 6'96 \rightarrow 0.92x = x - 6'96$$

$$0.92x - 1x = -6'96 \rightarrow 0.08x = 6'96 \rightarrow 87€$$

Pag 139 ej 22

Comida $\rightarrow 13x - 2$

$$12x + 8 = 13x - 2 \rightarrow x = 10 \text{ personas}$$

Regalo $\rightarrow 12x + 8$

$$10 \cdot 13 - 2 = 128€$$

Pizarra ej 1

Datos

Bajado -30%

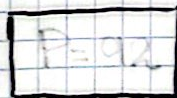
$$x \cdot 0.7 \cdot 1.2 = x - 5 \rightarrow 0.84x = x - 5 \rightarrow 0.84x - x = -5$$

Subido +20%

$$-0.16x = -5 \rightarrow 0.16x = 5 \rightarrow x = 31'25$$

Ahorrado 5€

Pag 139 ej 27



$$a) 4x + 2 = 92 \rightarrow 4x = 90 \rightarrow x = 22'5 \text{ cm}$$

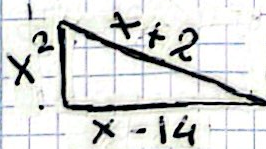
$$b) 4x + 2 = 106 \rightarrow 4x = 104 \rightarrow x = 26 \text{ cm}$$

$$x+1$$

$$P=92 \quad P=106$$

Pag 134 ej 1 (Resuelto)

Datos



Cateto'

Cateto²

Hipotenusa

hip-2

cat'+2

cat'+2

Cat²+14

cat'-14

x+2

$$x-14$$

$$x^2 + (x-14)^2 = (x+2)^2 \rightarrow x^2 + x^2 + 196 - 28x = x^2 + 4 + 4x$$

$$x^2 + 196 - 32x = 0 \rightarrow -196 \pm \sqrt{196^2 - 4 \cdot (-32)} = \frac{196 \pm 2}{2}$$

$$\rightarrow \frac{-196 - 2}{2}$$

1. Resuelve las ecuaciones

$$a) \frac{-8}{1} + \frac{-2x+6}{7} = \frac{-30}{7} \rightarrow -56 + (-2x) + 6 = -30 \rightarrow$$

$$-2x = -30 + 56 - 6 \rightarrow -2x = 20 \rightarrow x = -10$$

$$b) \frac{-4x+2}{-2x-2} \times \frac{3}{2} \rightarrow 2(-4x+2) = 3(-2x-2) \rightarrow -8x+4 = -6x-6$$

$$10 = 2x \rightarrow 5 = x$$

$$c) \frac{13}{1} + \frac{3x+6}{15} = \frac{5x-1}{3} \rightarrow 195 + 3x + 6 = 25x - 5 \rightarrow$$

$$201 + 3x = 25x - 5 \rightarrow 206 = 22x \rightarrow 103 = x$$

$$d) \frac{-5(x+9)}{25} - \frac{x+7}{15} = x + \frac{1}{3} \rightarrow -15 + 3x + 27 - 5x - 25 = 25x + 5$$

$$e) \frac{5}{1} - \frac{(+4x+1)}{9} = \frac{14}{9} \rightarrow 45 + 4x + 1 = 14 \rightarrow 32 = -4x \rightarrow x = -8$$

$$f) \frac{11}{-3x+4} \times \frac{-28}{5x+3} \rightarrow 11(3x+3) = -28(-3x+4) \rightarrow 33x + 33 = 84x - 112$$

$$33x + 33 = 84x - 112 \rightarrow 145 = 51x$$

Miércoles 5 de febrero 2025

Pag 139 ej 39

$$\frac{x}{10} + \frac{x}{5} + \frac{x}{3} + 33 = \frac{x}{1} \quad \frac{x}{10} + \frac{x}{5} + \frac{x}{3} + \frac{33}{1} = \frac{x}{1}$$

$$3x + 6x + 10x + 190 = 30x \rightarrow 190 = 30x - 19x \rightarrow 190/11 = x$$

Pag 139 ej 35

$$\begin{aligned} &\rightarrow 5 \cdot \overset{x=4}{\text{clase}} \text{ sobran } 3 = 5x + 3 && 7x - 5 = 5x + 3 = x = 4 \\ &\rightarrow 7 \cdot \underset{x=4}{\text{clase}} \text{ faltan } 5 = 7x - 5 && 5 \cdot 4 + 3 = 23 \text{ alumnos} \end{aligned}$$

Pag 139 ej 36

$$\begin{aligned} &\rightarrow 8 \text{ entradas} = 8x + 0 = \text{dinero total} \\ &\rightarrow 5 \text{ entrada}^* \text{ sobra } 7€ = 5(x+4) + 7 = \text{dinero total} \\ &8x = 5x + 27 \rightarrow x = 27/3 = 9 \end{aligned}$$

1. Resuelve las ecuaciones

$$a) \frac{-8}{1} + \frac{-2x+6}{7} = \frac{-30}{7} \rightarrow -56 + (-2x) + 6 = -30 \rightarrow$$

$$-2x = -30 + 56 - 6 \rightarrow -2x = 20 \rightarrow x = -10$$

$$b) \frac{-4x+2}{-2x-2} \times \frac{3}{2} \rightarrow 2(-4x+2) = 3(-2x-2) \rightarrow -8x+4 = -6x-6$$

$$10 = 2x \rightarrow 5 = x$$

$$c) \frac{13}{1} + \frac{3x+6}{15} = \frac{5x-1}{3} \rightarrow 195 + 3x + 6 = 25x - 5 \rightarrow$$

$$201 + 3x = 25x - 5 \rightarrow 206 = 22x \rightarrow 103 = x$$

$$d) \frac{-5(x+9)}{25} - \frac{x+7}{15} = x + \frac{1}{3} \rightarrow -15 + 2x - 27 - 5x - 27 = 25x + 15$$

$$e) \frac{5 - (+4x+1)}{9} = \frac{14}{9} \rightarrow 45 + 4x + 1 = 14 \rightarrow 32 = 4x \rightarrow x = -8$$

$$f) \frac{11}{-3x+4} \times \frac{-28}{3x+3} \rightarrow 11(3x+3) = -28(-3x+4) \rightarrow 33x + 33 = 84x - 112$$

$$145 = 51x$$

Miércoles 5 de febrero 2025

Pag 139 ej 39

$$\overbrace{\frac{x}{10} + \frac{x}{5} + \frac{x}{3} + 33} = \frac{x}{1} \quad \frac{x}{10} + \frac{x}{5} + \frac{x}{3} + \frac{33}{1} = \frac{x}{1}$$

$$3x + 6x + 10x + 190 = 30x \rightarrow 190 = 30x - 19x \rightarrow 190/11 = x$$

Pag 139 ej 35

$$\begin{array}{l} \rightarrow 5 \cdot \overset{x=4}{\text{clase}} \text{ sobran } 3 = 5x + 3 \quad 7x - 5 = 5x + 3 = x = 4 \\ \rightarrow 7 \cdot \underset{x=4}{\text{clase}} \text{ faltan } 5 = 7x - 5 \quad 5 \cdot 4 + 3 = 23 \text{ alumnos} \end{array}$$

Pag 139 ej 36

$$\rightarrow 8 \text{ entradas} = 8x + 0 = \text{dinero total}$$

$$\rightarrow 5 \text{ entrada}^* \text{ Sobra } 7€ = 5(x+4) + 7 = \text{dinero total}$$

$$8x = 5x + 27 \rightarrow x = 27/3 = 9$$