1 Si la direiencia entre 8 veces cierto número. 4 24 se multiplica por dicho número, resulta cero deval es el número?

solución. t = número (8t - 24)t = 08t2-24t=0 t (8t - 24) =0

7 (cmprobamos.
$$(8(3)-24)3=0$$

$$(24-24)3=0$$

$$0\cdot 3=0$$

$$0=0.0$$

¿ coue número multiplicado Par 30 es 1000 unidades menor que su cuadrado?

t = 3

50 (UCLOF.
$$30 \chi < \chi^2$$
 $30 \chi + 1000 = \chi^2$
 $\chi^2 - 30 \chi - 1000 = 0$
 $\chi = -5 \pm \sqrt{6^2 - 40c^2}$
 $\chi = 30 \pm \sqrt{900 - 4(1)(-1000)^2}$
 $\chi = 30 \pm \sqrt{4900} - 1 = 30 \pm 70$

compidbamos.

Jun Poligono de n lodos tiene on (n-3) diagonales ecuantos lados tiene un poligono con 27 diagonales?

solución. $d = \frac{n(n-3)}{2}$ $23 = \frac{n(n-3)}{2}$

2.27 = n(n-3)

54-n2-3n

n2-3n-54=0

(n-9) (n+6) = 0

n-q=q n+6=-6 e| Positive

Respuesta: El Poligono tiene q Lados.

Comprobamos.

27 = 9(9-3

27 = 54 27 = 27 1

Determina da númeras impares consecutivas escutivas escu

 $\chi^{2} + (\chi + z)^{2} = 394$ $\chi^{2} + \chi^{2} + 2(\chi^{2}) + z^{2} = 394$

2×2 + 4 × + 4 = 3.94.

2 × 2 + 4 × - 394 = 0

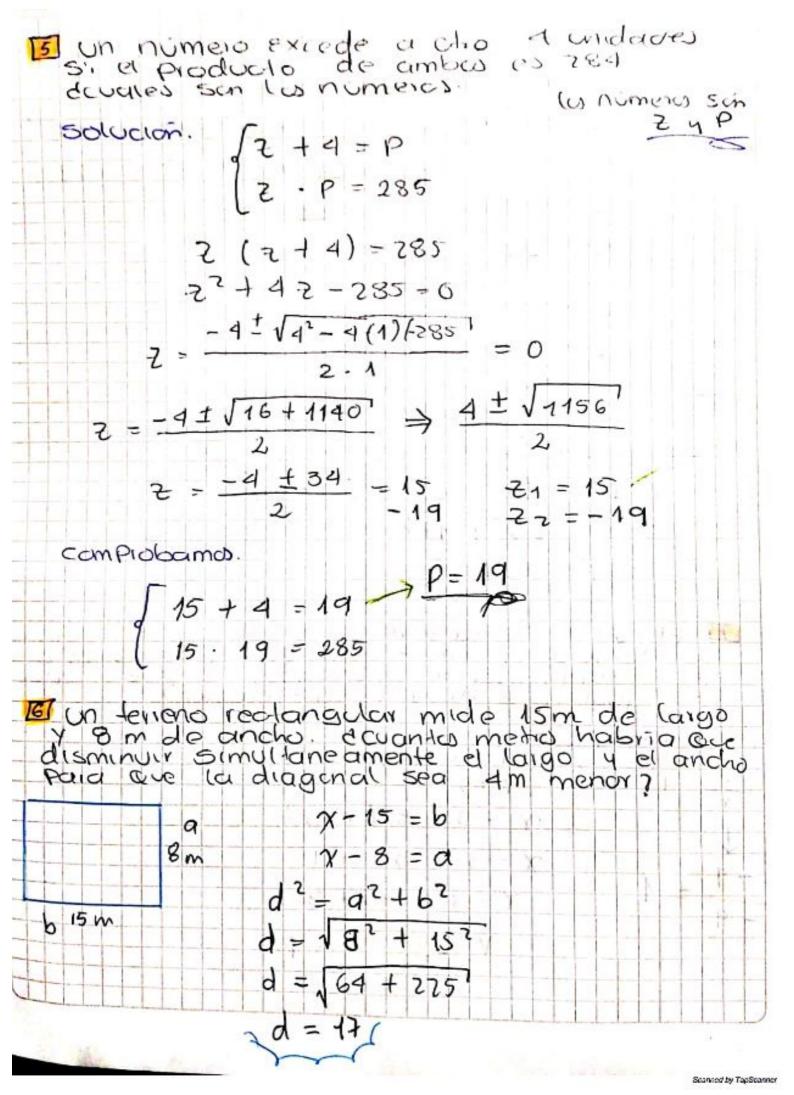
2 (x = 13) (x + 15) = 0

2 1 = - 15

Comprobamos.

132 + (13+2)2 = 394

 $169 + 15^{2} = 394$ 394 = 394



$$\frac{d^{2}}{(17-4)^{2}} = (x-3)^{2} + (y+15)^{2}$$

$$13 = x^{2} - 2y8 + 9^{2} + x^{2} - 1x15 + 15^{2}$$

$$169 = x^{2} - 16x + 64 + x^{2} - 30x + 22$$

$$169 = 2x^{2} - 46x + 129$$

$$0 = x^{2} - 23x + 60$$

$$0 = (x-26)(x-3)$$

$$x-20 = 0 \quad x-3=0$$

$$x-3=3$$
Comprehenous
$$169 = (3-8)^{2} + (3-15)^{2}$$

$$169 = 25 + 144$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$169 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

$$170 = 169.$$

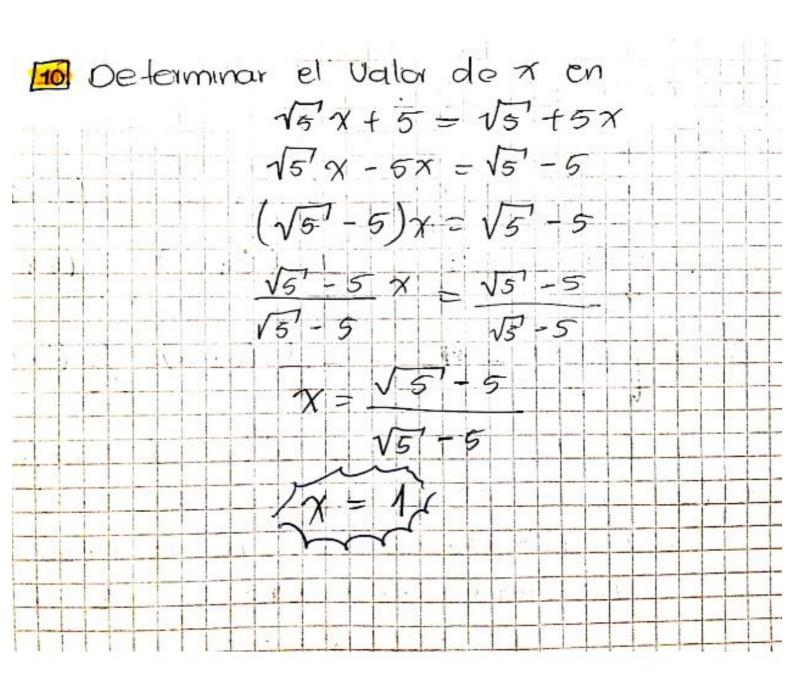
$$170 = 169.$$

Determine el valar de
$$x$$
 en:

 $0, 21 - 0, 26\gamma = -0, 04x - 0, 06$
 $1000 \left[\frac{21}{100} + \frac{26}{100} \chi \right] = -\frac{4\gamma}{100} - \frac{6}{100} \right]$
 $24 + 26 \chi = -4 - 6$
 $26 \chi + 4 \chi = -6 - 21$
 $30 \chi = -27$
 $\chi = \frac{27}{30}$

10 Determine el valar de χ en

 $11\chi - 2 - \frac{1}{4}(6\chi - 2) = \frac{5}{6}(6\chi + 1)$
 $\frac{6\chi + 1}{3} - \frac{11\chi - 2}{3} - \frac{1}{4}(6\chi - 2) = \frac{5}{6}(6\chi + 1)$
 $\frac{6\chi + 1}{3} - \frac{11\chi - 2}{3} - \frac{1}{2}(6\chi - 2) = \frac{5}{3}(6\chi + 1)$
 $\frac{6\chi + 1}{3} - \frac{11\chi - 2}{3} - \frac{1}{2}(6\chi - 2) = \frac{5}{3}(6\chi + 1)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{11\chi - 2}{3} - \frac{1}{2}(6\chi - 2) = \frac{5}{3}(6\chi + 1)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{11\chi - 2}{3} - \frac{1}{3}(6\chi - 2) = \frac{5}{3}(6\chi + 1)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2) - \frac{3}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2) - \frac{3}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2) - \frac{3}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2) - \frac{3}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2) - \frac{3}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2) - \frac{3}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2) - \frac{3}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1}{3}(2\chi - 2)\right)$
 $\frac{3}{3} \cdot 2^2 \left(\frac{6\chi + 1}{3} - \frac{1$



Determine el vala de x en $\frac{2x+4}{2x-1} = \frac{4x+5}{x-3}$ (2x+4)(x-3)=(2x-1)(4x+5)2x2+4x-6x-12=8x2-4x+10x-5 2x2-2x-12=8x2+6x-5 -1(-6x2-8x-7)=0-1 6x2+8x+7=0 = -8 I V64-4 (42)1 - 4 + VT' · V261 4 - VT V26 X1= 100 Determine el valor de X 12x +5 - 4x2 = 9x +5 Solución. 1-472 + 37 +0 =0

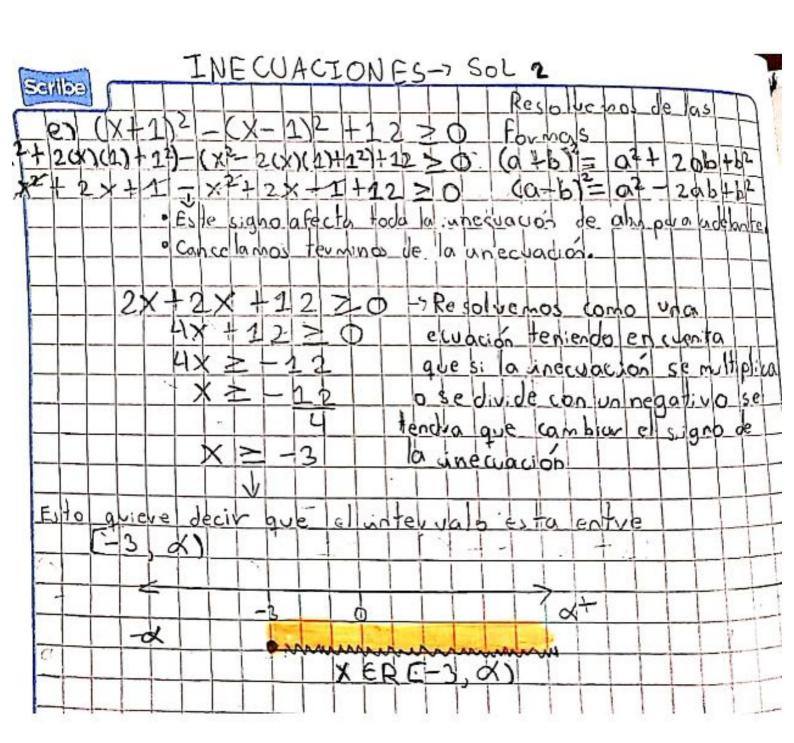
Babiendo que la suma de sus cuadiados es 394.

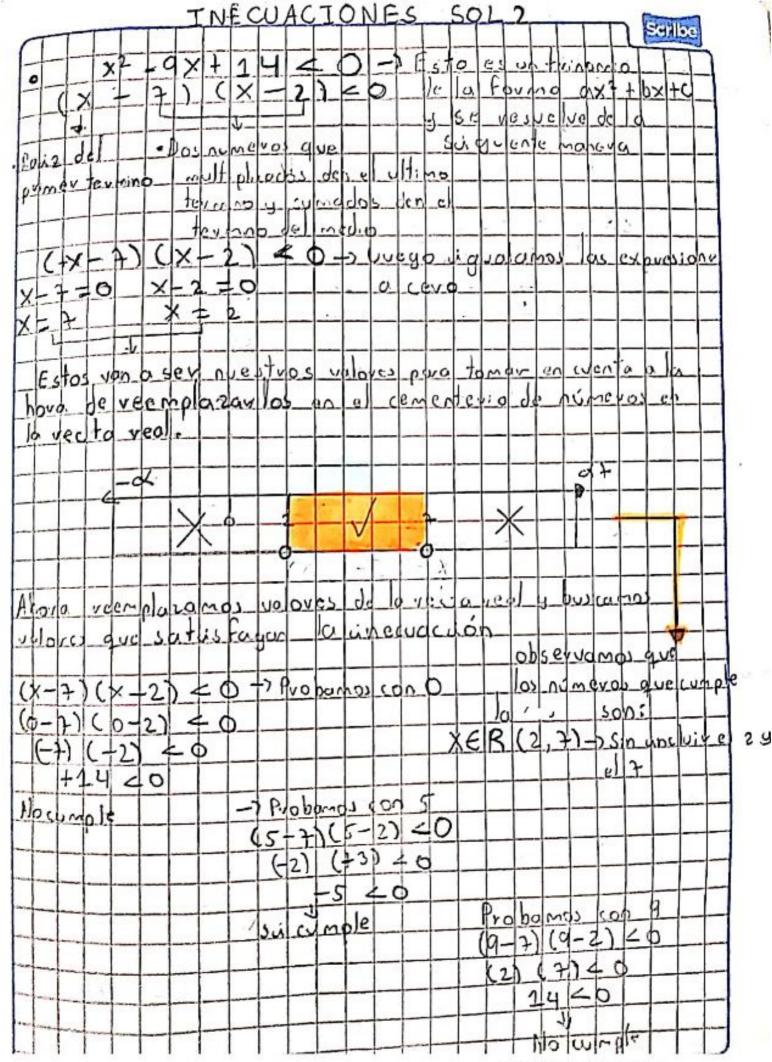
$$n + 2$$
 Imfav consecutivo
 $n^2 + (n+2)^2 = 394$
 $n^2 + n^2 + 2 \cdot 7 \cdot 1 \cdot 4 = 394$
 $2n^2 + 4n + 4 = 394$
 $2n^2 + 4n - 390 = 0$ Olvide en 2
 $n^2 + 2n - 195 = 0$
 $(n + 15) (n - 13) = 0$
 $n + 15 = 0$ $n - 13 = 0$
 $n = -15$ $n = 13$
 $13^2 + (-15)^2 = 169 + 725 = 394$

Defemine el vala de x en

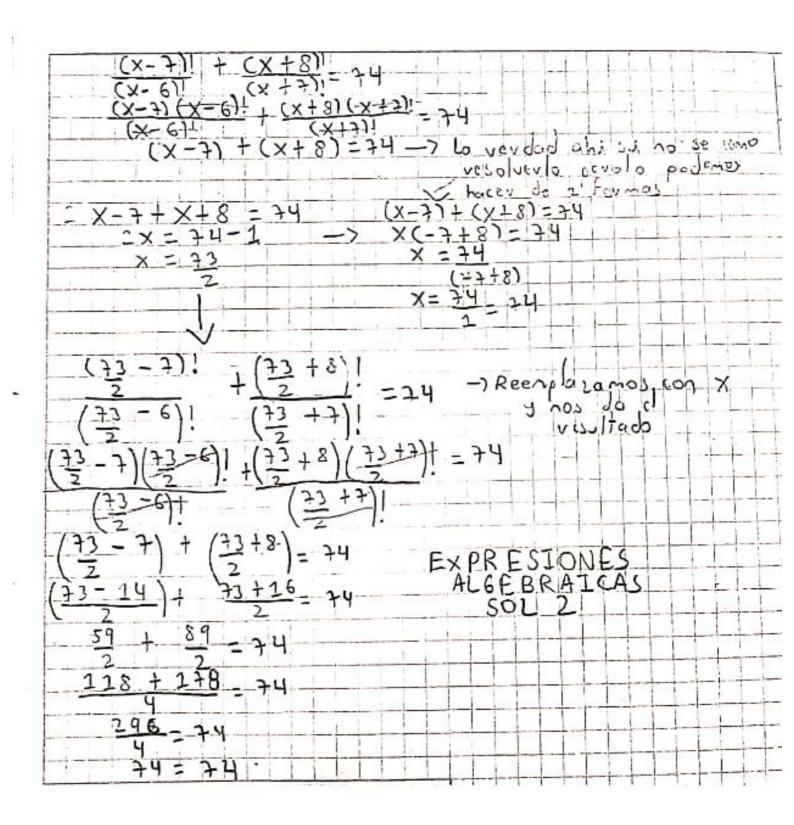
Solution.
$$\frac{x+5+2}{2} = -13 + \frac{49-x}{2}$$

 $\frac{x+5+4}{2} = -13 + \frac{49-x}{2}$
 $4(\frac{x+9}{4}) = (-13 + \frac{49-x}{2}) + \frac{49-x}{2}$
 $x+9 = -52 + 2(49-x)$
 $x+9 = -52 + 98 - 2x$
 $2x + x = 96 - 9$
 $3x = 37$
 $x = 37$





Escaneado con CamScanner



CUACIO CJEBCICIOS. PONENC

Desolve (as ecuaciones exponenciales y comprebu Les resulados.

①
$$5^{2x-1} = \sqrt[3]{25^{x^2} - \frac{1}{4}}$$

$$6^2x^{-1} = 6^2\frac{2x^2-\frac{1}{2}}{3}$$

$$2x-1 = \frac{2x^2 - \frac{1}{2}}{3}$$

$$2x-1=\frac{4x^2-1}{2}=\frac{4x^2-1}{6}$$

$$12x-6 = 4x^7-4$$

$$-4x^{2} + 12x - 5 = 0 (-1)$$

$$4x^{2} - 12x + 5 = 0$$

$$4x^{2} - 12x + 3 = 0$$
 $4x^{2} - 2x - 10x + 5 = 0$

$$\gamma = \frac{5}{3}$$

$$\gamma = 2.5$$

comprobamos

$$2(0,5)-1=(0,5)^2-\frac{1}{4}$$

$$5^{\circ} = \sqrt[3]{25^{\circ}}$$

$$4^{x+1} + 2^{x+3} - 320 > 0$$

$$(2^2) \cdot 4 + 27 \cdot 8 - 320 = 0$$

