10/11/2020

192
$$(x-10^{-1})^2 + 10^{-2}(x+10) = 10^{-1}(1+10^{-2})$$

$$(x - \frac{1}{10})^2 + \frac{1}{100}(x + 10) = \frac{1}{10}(1 + \frac{1}{100})$$

$$x^{2} + \frac{1}{100} - \frac{1}{5}x + \frac{x+10}{100} = \frac{1}{10} + \frac{1}{1000}$$

$$1000 \times^{2} + 10 - 200 \times + 10(x+10) = 100 + 1$$

$$1000 \times^{2} + 10 - 200 \times + 100 \times + 100 - 100 - 1 = 0$$

$$\beta = \frac{b}{2} = -\frac{190}{2} = -95$$

$$X = \frac{-\beta \pm \sqrt{\beta^2 - \alpha c}}{\alpha} =$$

$$\frac{\Delta}{4} = \beta^2 - ac = (-95)^2 - 900 =$$

$$X = \frac{9}{100}$$
 V $X = \frac{1}{10}$

189
$$(x-3)(x+3) + \frac{1}{2}(5-x)^2 = \frac{x+1}{4} + 1$$

$$x^{2} - 9 + \frac{1}{2}(25 + x^{2} - 10x) = \frac{x+1}{4} + 1$$

$$4x^{2} - 36 + 2(25 + x^{2} - 10x)$$
 $x+1+4$

$$4x^{2}-36+50+2x^{2}-20x = x+5$$

$$6x^{2}-21x+9=0$$
 $\Delta=L^{2}-4ac=(-21)^{2}-4\cdot6\cdot9=$

$$x = -l \pm \sqrt{\Delta} = 21 \pm 15 = 12 = \frac{6}{12} = \frac{1}{2}$$

$$2a = 12$$

$$36 = 3$$

$$12 = 3$$

$$\times = \frac{1}{2} \quad V \quad \times = 3$$

La somma dei primi n numeri naturali, a partire da 1, è data dalla formula: $\frac{1}{2}n(n+1)$. Quanti numeri naturali occorre sommare per ottenere come risultato 190?

$$1+2+3+4+5+...+ M = \frac{M(N+1)}{2}$$

$$1+2=\frac{2\cdot(2+1)}{2}=3$$

$$M = 5$$

$$1+2+3+4+5 = \frac{5(5+1)}{2} = \frac{30}{2} = 15$$

$$S = \frac{100 \cdot 101}{2} = 5050$$

$$S = \underbrace{M \cdot (M+1)}_{2}$$

$$S = M(M+1)$$

$$S = 130$$

$$M(M+1) = 130$$

$$2$$

$$M(M+1) = 380$$

$$M^{2} + M - 380 = 0$$

$$\Delta = 1^{2} + 4 \cdot 380 = 1 + 1520 = 1521 = 39^{2}$$

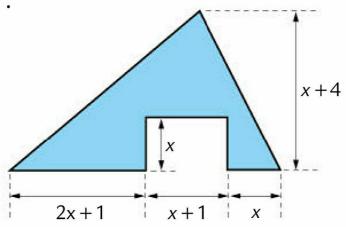
$$M = -1 \pm 39$$

$$2$$

$$38 = 19$$

Addizionando a un numero il suo reciproco si ottiene come risultato $\frac{17}{4}$. Determina il numero. $\begin{bmatrix} \frac{1}{4} & 0 & 4 \end{bmatrix}$

Determina x sapendo che l'area della figura colorata è 24 cm².



[2 cm]

$$\frac{1}{2}(2x+1+x+1+x)(x+4) - x(x+1) = 24$$
AREA MANGOO

$$\frac{1}{2}(4x+2)(x+4) - x^2 - x - 24 = 0$$

$$(2x+1)(x+4) - x^2 - x - 24 = 0$$

$$2x^2 + 8x + x + 4 - x - x - 24 = 0$$

$$x^2 + 8x + x + 4 - x - x - 24 = 0$$

$$x^2 + 8x + x + 4 - x - x - 24 = 0$$

$$x^2 + 8x + x + 4 - x - x - 24 = 0$$

$$x^2 + 8x + x + 4 - x - x - 24 = 0$$

$$x + 8x - 20 = 0$$