Name:

LUCIA CAPCAMO

Perm Number:

6185195

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

((2+h)2-(2+h)+2)-22-2+1

(2+h)(2+h) 4+2h+2h+h² 4+4h+h²

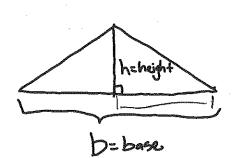
34+1,2

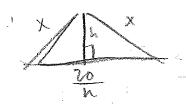
(2+h)2-(2+h)+2-4-2+2 47-4h+h2-2-h+2-4-2+2 4h+h2-h 3h+h2

3h+h2

2) If $f(n) = n^{2} - 1$, compute $\sum_{n=0}^{4} f(n)$. $\sum_{N=0}^{2} \sqrt{2} - 1$ $= (0^{2} - 1)^{2} + (1^{2} - 1)^{2} + (2^{2} - 1)^{2} + (3^{2} - 1)^{2} + (15^{2} - 1)^{2}$ $= (-1)^{2} + (0)^{2} + (3)^{2} + (15^{2} - 1)^{2}$ $= (0 + 15)^{2}$ = 10 + 15

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$





PERIMETER=

$$x + x + b = 2x + b$$

 $= 2\sqrt{\frac{100}{h^2} + h^2} + \frac{20}{h}$

$$((\frac{1}{2})(\frac{10}{h})^{2} + h^{2} = \chi^{2}$$

$$\frac{10^{2}}{h} + h^{2} = \chi^{2}$$

$$\frac{100}{h^{2}} + h^{2} = \chi^{2}$$

$$\chi = \sqrt{\frac{100}{h^{2}} + h^{2}}$$

Perimeter =
$$2\sqrt{\frac{100}{h^2} + h^2} + \frac{20}{h}$$

Name: Alicica Calabi

Perm Number: (6(6(6) ≥ 6 − ≥

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h. (2+h) - 2 + 1 + 2

2-2+2=(4)

4+112 2 +h > 2 (1121-14)

4- N2+N+4

1-2-4-17

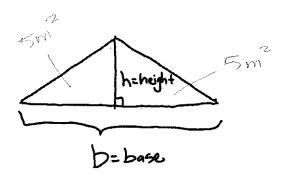
2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

$$\frac{4}{n=0} = 2$$

$$(1 + n^2 - 1) = 1 + 0^2 - 1 = 0 = 0$$

$$2 = 2$$

$$\sum_{n=0}^{4} f(n) = \bigcirc$$



Perimeter = 1/1 + 5

Name:

emily conun

Perm Number:

5622949

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$f(x) = X^{2} - X + 2$$

$$f(2) = 4 - 2 + 2 = 4$$

$$f(2+h) = (2+h)^{2} - (2+h) + 2$$

$$= 4 + 4h + h^{2} - 2 - h + 2$$

$$= 4 + 3h + h^{2} - 1 + h^{2} + 3h + 4$$

$$f(2+h) - f(2+h) = h^{2} + 3h + 4 - 4 = h^{2} + 3h$$

h2 + 3h

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

 $\left(\frac{n-1}{2}\right)n$

(Mar) (M/)



DA

-1,0,3,8



$$f(n) = n^{2} - 1$$

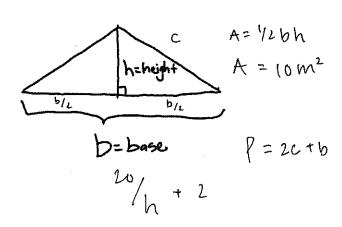
$$= (0) - 1 = -1$$

$$= (1) - 1 = 0$$

$$= (2^{2}) - 1 = 3$$

$$= (3^{2}) - 1 = 3$$

$$= (3^{2}) - 1 = 3$$



$$10 = \frac{1}{2}bh$$

$$20 = bh$$

$$b = \frac{20}{h}$$

$$h^{2} + \left(\frac{b}{2}\right)^{2} = c^{2}$$

$$c = \sqrt{h^{2} + \left(\frac{b}{2}\right)^{2}}$$

Brandy Rodriguez

Perm Number:

6565634

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$x=2$$
 χ^2-x+2

$$X^2-X+2$$

$$4-2+2$$
 (2th)(2th) - (2+h) +2

2h+h²
4+4h+h²-X+h+X
4+5h+h²
5h+h²+4

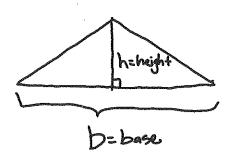
 $5h + h^2$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} n^2 - 1$$

XXXXX -1,0,3,8,15

$$\sum_{n=0}^{4} f(n) = -1, 0, 3, 8, 15$$



230h 1/20h2 3/20h

H's formy but It \$150

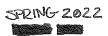
SOCKS because I

Know how to do

this problem.

The is 5. Reason why I get this I wrong is because I the don't know the don't know the perimeter of a perimeter of a com² =
$$\frac{1}{2}bh$$
 $10m^2 = \frac{1}{2}bh$
 $10m^2 = \frac{1}{2}bh$

Perimeter = 300





Name: C'KRET LINDSEY

Perm Number:

0301232



1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

Ext n2 -2/2 + h 13

202

$$4x-2\times +2$$

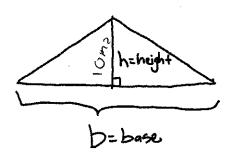
$$\frac{2\times +2}{2}$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\frac{(n+1)^2}{2}$$

$$4 ((0+3))$$

$$\sum_{n=0}^{4} f(n) = L(0+3) = -12$$



$$C_{3} = 0_{5} + p_{3}$$

Name:

crystal Menduza

Perm Number:

4138483

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$2 = (2)^{2} - (2) + 2$$

$$= 4 - 2 + 2$$

$$= 2 + 2$$

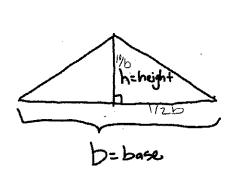
h73h+44 h2+3h $(2+h)^{2}$ -(2+h) $(2+h)^{2}$ $(2+h)^{$

 h^2+3h

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} n^2 - 1$$

$$\sum_{n=0}^{4} f(n) = \boxed{ 15}$$



Perimeter =

Miliani leyva- Menntez Name:

Perm Number:

3954120

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h. 72-2+2

(1147)(146)

4+lhilhih

4+44+ p2 (2+4)2-2+4+5

4+4N+42-/+h+/ = 4+54+62

4-212

4-4+54 +42

= 5 h + h 2

5h+h2

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

02-1 12-1 22-1 32-1 42-1

N=0

-1,0,3,8,15

-1+0+3+8+15

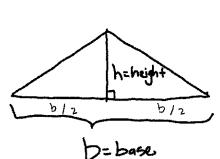
2+8+15

10+15

 $\sum_{n=1}^{\infty} f(n) =$

之(是,号)

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



? triangles

 $A = \frac{1}{2}bh$ $A = \frac{1}{2}bh$ $A = \frac{1}{2}bh$ $A = \frac{1}{2}(5.2)$ $A = \frac{1}{2}(5.2)$ $A = \frac{1}{2}(5.2)$ $A = \frac{1}{2}(5.2)$ $A = \frac{1}{2}bh$ $A = \frac{1}{2}bh$

$$h^{2} + (b/z)^{2} = C^{2}$$

$$h^{2} + \frac{b^{2}}{4} = C^{2}$$

$$h^{2} + \frac{b^{2}}{4} - C^{2} = 0$$

$$\frac{b^{2}}{4} - C^{2} = h^{2}$$

$$\sqrt{\frac{b^{2}}{4} - C^{2}} = h$$

$$\frac{2b}{7} - c = h$$

$$\frac{2b}{7} - c = h$$

h2+414+4

_ Quiz 5

Name:

Pimentel

Perm Number:

4205688

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$2^{2}-2+2 \qquad (2+h)^{2}-(2+h)+2 \qquad (2+h)(2+h)$$

$$4-2+2 \qquad h^{2}+4h+4 \qquad (2+h)+2 \qquad 4+2h+2h+h^{2}$$

$$2+2 \qquad h^{2}+4h+4-x-h+2 \qquad 4+4h+h^{2}$$

$$=4 \qquad h^{2}+3h+4 \qquad h^{2}+3h$$

h2 + 3h

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$0^{2}-1=-1$$

$$1^{2}-1=0$$

$$2^{2}-1=4-1=3$$

$$3^{2}-1=9-1=8$$

$$4^{2}-1=16-1=15$$

$$\sum_{n=0}^{4} f(n) = 26$$

$$\frac{c}{h = h \cdot h} \frac{1}{h^2} \frac{1}{h^2$$

Perimeter =
$$2\left(\frac{20m^2 + h^2}{h}\right) + \frac{20m^2}{h}$$

Name:

ANNalise Evans

Perm Number:

5301023

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$2^{2}-2+2$$
 $4-2+2=4$

$$(2+h)^{2} - (2+h)+2$$

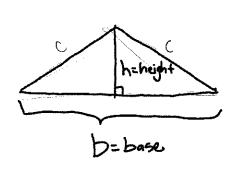
 $(2+h)(2+h)$
 $4+4h+h^{2}-X-h+2$
 $h^{2}+3h+4$

h2 +3h

2) If
$$\underline{f(n)} = \underline{n^2 - 1}$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} n^{2} - 1 \qquad | 15 \\
+ 8 \\
+ 1 + 0 + 3 + 8 + 15 \qquad | + 3 \\
0 + 1 + 3 + 3 + 4 \\
25 \qquad | -1 \\
25$$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



$$A = \frac{1}{2}bh$$

$$10 = \frac{1}{2}bh$$

$$P = \frac{20}{h} + 2\sqrt{h^2 + \frac{100}{h^2}}$$

$$\frac{20}{h} = b$$

$$h^{2} + (\frac{120}{2n})^{2} \cdot c^{2} + h^{2} + (\frac{10}{n})^{2} - c^{2}$$

$$c^{2} = h^{2} + \frac{400}{h^{2}} + \frac{100}{h^{2}} - \sqrt{c^{2}}$$

$$\sqrt{c^{2}} + h^{2} + \frac{400}{h^{2}}$$

Perimeter =
$$\frac{20}{h} \div 2\sqrt{h^2 \cdot \frac{100}{h^2}}$$

Name: KARLYM

Perm Number:

978294-7

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

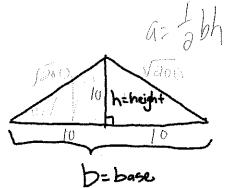
(ath) + (afh) ta (Sth)(arh)
4+4h+h2 - 1-h+2 ha +3h+4

hat3h+4

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

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 $\sum_{n=0}^{\infty} f(n) =$



1001 100 : Cy

2 . 11 - 12 15 13

20- bh

b. 10

1=10

Perimeter =

Name: Stephane Mita

Perm Number: | 8038481

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$(2+n)^{2} - (2+h) + 2$$

$$(2+h)(2+h) = 4+2h+2h+h^{2} - 1 - h + 1$$

$$= 4+4h+h^{2} - h$$

$$= 4+3h+h^{2}$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

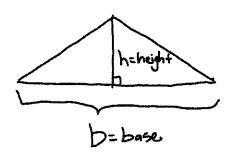
$$\sum_{n=0}^{4} y^2 - 1 = \sum_{n=0}^{4} n^2 + \sum_{n=0}^{4} 1$$

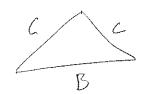
$$N(n+1)(2n+1) = \frac{4(4+1)(2(4)+1)}{6} = \frac{4(5)(9)}{6} = \frac{180}{6} = 30$$

$$\frac{4}{5} = -1 = -1 - 1 - 1 - 1 = -5$$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

$$\frac{70 - 5 = 25}{5}$$





$$A = \frac{1}{2}bh \qquad Q^{2} \cdot b^{2} = C^{2}$$

$$\frac{10 = \frac{1}{2}bh}{h} \qquad h^{2} + b^{2} = C^{2}$$

$$\frac{1}{2}B = \frac{10}{h}(2) \qquad \left(h^{2} + \left(\frac{20}{h}\right)^{2} + \int_{0}^{2} C^{2}\right)$$

$$\frac{1}{2}B = \frac{10}{h}(2) \qquad C = \left(\frac{h^{2} + 400}{h^{2}}\right)$$

Perimeter =
$$\frac{20}{h} + 2\sqrt{h^2 + \frac{400}{h^2}}$$

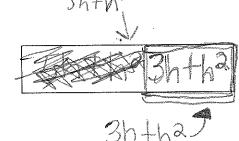
Name:

Perm Number: | 50 +

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be

ms of h. $\chi = 200 + 32 + h$ $\chi = 200 +$

1/44/12 21.1/2 4+3htha 4+3htha 4+5htha 21.1/2



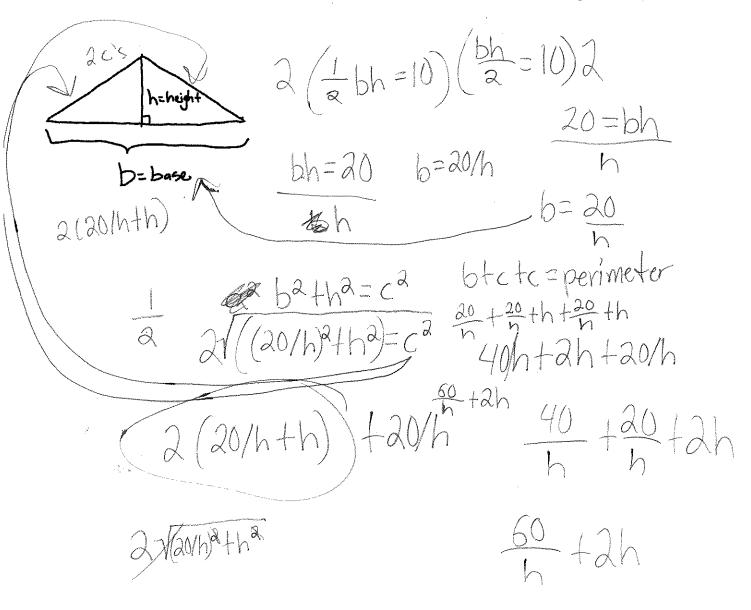
2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

 $f(n) = n^2 - 1$

2 -1+0+3+8+15

 $0^{2}-1$ -1+5=2+8=10+15=25 $1^{2}-1$ $1^{2}-1$ $1^{2}-1$ $1^{2}-1$ $1^{2}-1$ $1^{2}-1$ $1^{2}-1$ $1^{2}-1$ $1^{2}-1$ $1^{2}-1$

 $\sum_{n=0}^{\infty} f(n) = \left| -1 + 0 + 3 + 8 + 15 = 25 \right|$



Perimeter = $\frac{60}{h}$ + $\frac{3}{h}$

Name:

Zihu

Zhu

Perm Number:

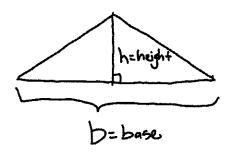
5381462

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

12+4h-h

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = 25$$



Perimeter =
$$2 \times \sqrt{\frac{1}{4} + \frac{1}{4}} + \frac{1}{2}$$

Colin Gallivan Perm Number: 5862735

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$(2)^{2}-2+2$$
 $y-2+2$
 $= 4$

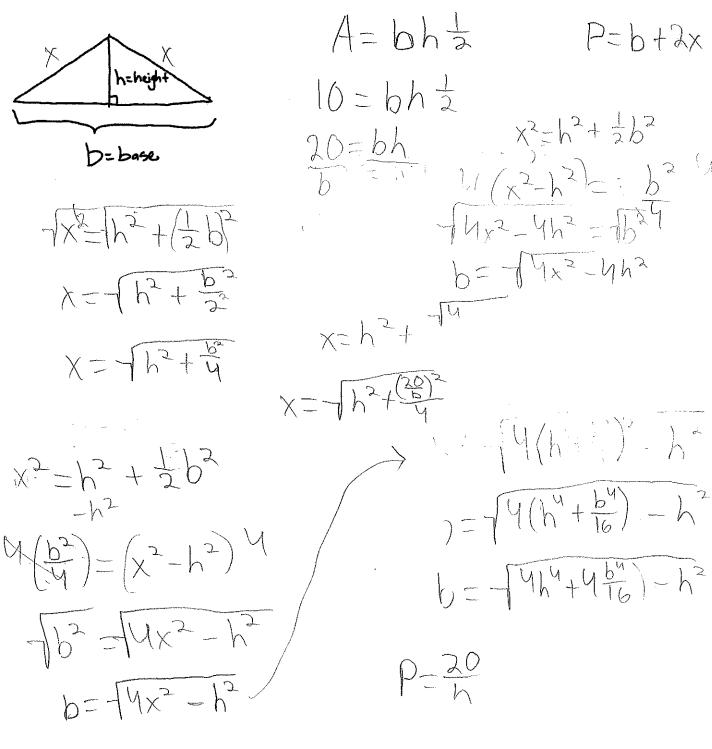
$$(2+h)^{2}-(2+h)+2$$

 $(2+h)(2+h)-X-h+4$
 $(2+h)(2+h)-X-h+4$
 $(2+h)(2+h)-X-h+4$
 $(2+h)(2+h)+2h+h^{2}-h+4$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

0.)
$$-1$$
1.) 0
2.) $3 - 246 = 10415 = 25$
3.) 8

$$\sum_{n=0}^{4} f(n) = \boxed{}$$



P

Perimeter =
$$\frac{20}{100} + 2\left(\sqrt{\frac{100}{1000}}\right)^2$$

Name:

Kellen Beckett

Perm Number:

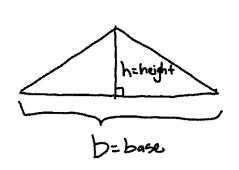
479466-5

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

h 2 + 3 h

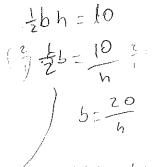
$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

P= 2 (1.3b)2+ h2



$$(\frac{1}{2}b)^{2} + h^{2} = c^{2}$$

$$\sqrt{(.5b)^{2} + h^{2}} = c^{2}$$



$$|P=2(\sqrt{(20)^2+h^2})+\frac{20}{h}$$

Perimeter =

Name:

Alvaro Marquez

Perm Number:

659-6506

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

(244) - 2+44 - 2

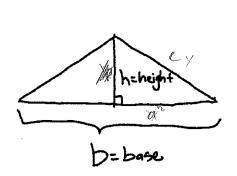
2th 292h h2h h2

h2+4h+2+h+2

1225h14

13 + 5 hard

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.



A= 10m2 hxby

62+102 -1C2

2.h. 0 10: a.b. c 10: b.h. c

Perimeter =

Name:

Perm Number:

5900857

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$\frac{(2+h)^{2}-2+h+2}{4+h^{2}-2+h+2}$$

$$\frac{(2+h)^{2}-2+h+2}{4+h^{2}-2+h+2}$$

$$\frac{2+2+h^{2}+h}{4+h^{3}}$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = \begin{bmatrix} 0^2 - 1, 1^2 - 1, 2^2 - 1, 3^2 - 1, \\ 4^2 - 1 \end{bmatrix}$$



 $A = b \cdot h$

b.h = 10m2

FA-20m2

A= bih p=

b.h = 20m2

$$a^2 + b^2 = 100$$

 $a^{2} + b^{2} = c^{2}$ $b^{2} + b^{2} = 2a$

2002 = \$

39,60,90

Ö

Name:

Mariah Ford

Perm Number:

6144893

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$2^{2}-2+2=4$$

$$(2+W)^{2}-(2+W)+2$$

$$(2+W)(2+W)-(2+W)+2$$

$$4+4W+W^{2}-2+W+2$$

$$4+5W+W^{2}$$

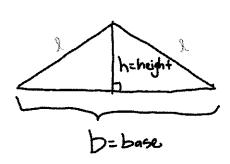
$$4+5W+W^{2}$$

5h + h2

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$(0^{2}-1), (1^{2}-1), (2^{2}-1), (3^{2}-1)$$

$$\sum_{n=0}^{4} f(n) = \boxed{ (-1), 0, 25, 2}$$



$$(\frac{b}{2})^{2} + h^{2} = l^{2}$$

$$h = (\frac{b}{2})^{2} + l^{2}$$

Perimeter =
$$\left(\sqrt{\frac{9}{2}}\right)^2 + \lambda^2 \times 2$$

Math 34A, UCSB

Name: Sydney BIVINS

Perm Number:

6358386

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$\begin{array}{c|c} 2 & 2 + h \\ x^2 - x + 2 & ? \end{array}$$

increases by 2h

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$0^2 - 1 = -1$$

$$1^2 - 1 = 0$$

$$2^2 - 1 = 3$$

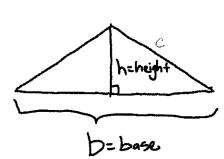
$$3^2 - 1 = 3$$

$$4^2 - 1 = 15$$

$$\sum_{n=0}^4 f(n) = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$$

 $b = \frac{20 \, \text{m}^2}{h}$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figue below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



$$h \times \frac{b}{2} = 10 \text{ m}^2$$

$$h \times \frac{b}{2} = 10 \text{ m}^2$$

$$(\frac{b}{2})^2 = c^2 - h^2 \qquad 2 \times \frac{hb}{2} = 10 \text{ m}^2 \times 2$$

$$(\frac{b}{2})^2 = c^2 - h^2 \qquad 2 \times \frac{hb}{2} = 10 \text{ m}^2$$

$$hb = 20 \text{ m}^2$$

5

sorry, we did something like this on the midterm and I

Name:

Toha Hossam

Perm Number:

5757406

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

2²-2+2 4-2+2 2+2=4

(2+h)2-2-h+2 4+4h+h2-1-h+12 3n+h2

4+3n+h2 -4 3h+h2

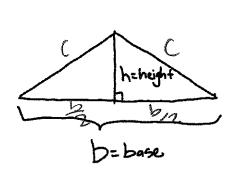
3h+h2 or3+h2

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

 $\frac{2}{5} f(N) = 00^{2} - 1; |2 - 1 : 2^{2} - 1; |3^{2} - 1; |4^{2} - 1$ = 0

 $\sum_{n=0}^{4} f(n) = \sum_{n=0}^{4} f(n) = \sum_{n=0}^{4}$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figue below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



$$A = \frac{6b}{2} = 710m^{2}$$

$$C^{2} = \frac{(b)^{2} + (b)^{2}}{4kh}$$

$$R = \frac{(b)^{2}}{4kh} = 710m^{2}$$

$$10 = \frac{(b)^{2}}{2} = 720 = \frac{(b)^{2}}{2} = \frac{70}{2}$$

$$\frac{(2+h^2+\frac{1}{2})}{\frac{1}{2}b} = \frac{(2+1)^2+\frac{1}{2}}{(2+1)^2+\frac{1}{2}}$$

$$C = \frac{(2-1)^2+\frac{1}{2}}{(2-1)^2+\frac{1}{2}}$$

Perimeter =
$$\frac{40}{9} + 9 + \sqrt{\frac{10}{9} + \frac{1}{2}}$$

Perm Number: 606536

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

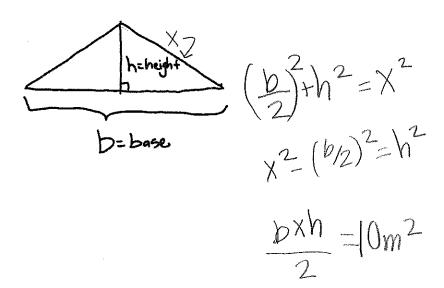
$$2^{2}-2+2$$
 $(2+h)^{2}-2+h+2$
 $4-2+2$ $4+h^{2}-2+h+2$
 $2+2=4$ $4-2+2+h^{2}+h$
 $4+h^{2}+h$
 $4+h^{2}+h$
 -4 $h^{2}+h$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$. $\int_{1}^{2} \frac{2}{n} \frac{1}{n^2} \frac{1}$

$$|^{2}-|=0$$
 $2^{2}-|=3$
 $3^{2}-|=9^{-1}=8$
 $4^{2}-|=16^{-1}=15$

$$\sum_{n=0}^{4} f(n) = 0,3,8,15$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figue below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



Perimeter =

Name:

Samuntha streens

Perm Number:

5113980

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$(2+h)^{2} - (2+h) + 2$$

$$h$$

$$4-2+7=4$$

$$1+2h+h^{2}-2-h+2$$

$$4-2+2=4$$

$$h$$

$$4+h+h^{2}$$

$$4+h$$

$$4+h$$

$$4+h$$

14th 1

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$f(0) = (0)^{2} - 1 = -1$$

$$f(1) = (1)^{2} - 1 = 1 - 1 = 0$$

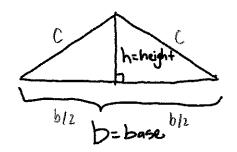
$$f(2) = (2)^{2} - 1 = 4 - 1 = 3$$

$$f(3) = (3)^{2} - 1 = 9 - 1 = 8$$

$$f(4) = (4)^{2} - 1 = 16 - 1 = 15$$

$$\sum_{n=0}^{4} f(n) = Q_{-1}, Q_{0}, Q_{3}, Q_{8}, Q_{15}$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



$$A = \frac{1}{2}bh$$

$$(10 = \frac{1}{2}bh)2$$

$$(\frac{b}{2})^{2} + (h)^{2} = C^{2}$$

$$(\frac{b}{2})^{2} + h^{2} = C^{2}$$

$$(\frac{b}{2})^{2} + h^{2} = C^{2}$$

$$(\frac{b}{2})^{2} + h = C$$

$$(\frac{20}{h} + h)$$

$$(\frac{40}{h} + 2h + \frac{40}{h})$$

Perimeter =
$$\int \frac{40}{h} + 2h + \frac{40}{h}$$

Name:

Jessica Amezcua

Perm Number: | 5714 381

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

8th

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{1} n^{2} - 1$$

$$\sum (3^{2}-1) + (1^{2}-1) + (2^{2}-1) + (3^{2}-1)$$

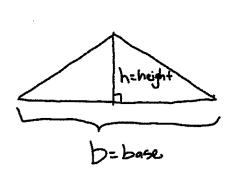
$$-1 + 0 + 3 + 8$$

$$-1 + 11$$

$$10$$

$$\sum_{n=0}^{4} f(n) = \boxed{}$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



$$A = \frac{1}{2}b \cdot h$$

$$10 = \frac{1}{2}b \cdot h$$

$$P = 76 + h$$

$$h = \frac{20}{h}$$

Perimeter =
$$\frac{40}{N} + \frac{20}{b}$$

Name:

Vivian de waart

Perm Number:

517530

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$(2+h)^{2} - 2+h +2$$
 $(2+h)(2+h)$
 $4x + 4h + h^{2} - 4h +2$
 $h^{2} + 3h$

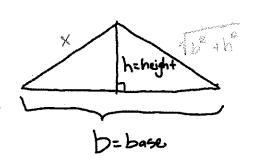
X=> 4 aigmany to x=2

ha +3h - 4.

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figue below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



$$a = b \cdot h$$
 $a = b \cdot h$
 $a = b \cdot h$

$$\frac{20}{5} + 2\sqrt{\frac{20}{5} + \frac{2}{5}}$$

$$\frac{20}{5} + 2\sqrt{\frac{10}{5}} + \frac{2}{5}$$

$$\frac{1}{5} + \frac{20}{5} > (\frac{10}{5})^{4}$$

Perimeter =
$$2\sqrt{\frac{100}{h^2}+h^2} + \frac{90}{h}$$

Name:

Ray Hernandez

Perm Number:

5714902

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$2^{2} - 2 + 7$$

$$(2+h)^2 - 2+h +2 - (2+h) +2$$

$$-11 + 00 \cdot 1 \cdot 00$$

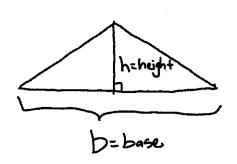
$$h^2 - h$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\frac{4}{\sum_{N=0}^{1}} N^{2} - 1$$

$$\sum_{n=0}^{4} f(n) = \boxed{ }$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



$$P = 2(h^2 + 1/2b^2) + b$$

$$\frac{20n^{2}}{h} = 10$$

$$P = 2\left(\sqrt{h^2 + \frac{1}{2}\left(\frac{20m^2}{h}\right)} + \frac{20m^2}{h}\right)$$

$$P = 2\left(h + \sqrt{\frac{20m^2}{2h}}\right) + \frac{20m^2}{h_1}$$

Perimeter =
$$2\left(h + \sqrt{\frac{20m^2}{h}}\right) + \frac{20m^2}{h}$$

Name:

Sparthe

Perm Number:

*5*959525

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

2+4

 $2^{2}-2+2$ (2+n) 4+4/5 th2-2+4+2 5h+h2 4x

A-75h 42 H

5hthit

5 n + 1 2

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$f(0) = 8^{2} - 1 = 1$$

$$f(0) = 1^{2} - 1 = 0$$

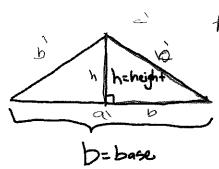
$$f(2) = 2^{2} - 1 = 3$$

$$f(3) = 3^{2} - 1 = 8$$

$$f(4) = 4^{2} - 1 = 15$$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figue below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



$$\int_{C}^{\infty} \frac{(20)^{2} + h^{2}}{(n)^{2} + h^{2}}$$

Perimeter =
$$2\sqrt{\frac{20^2}{5} + h^2} + \frac{20}{5}$$

Perm Number: 4984886

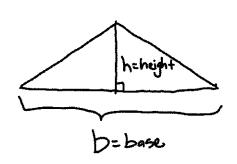
2 + h 2 - 2 + h + L

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h. $(h^2+1)(2+h)$ $2h^2+h^2+4+2$ $2h^2+h^2+4+2$ $2h^2+h^2+4+2$ $2h^2+h^2+4+2$ $2h^2+h^2+4+2$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = \bigcirc \bigcirc$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



$$A = 10m^{2}$$
 $P = h$
 $\frac{1}{2}b(h) = A$
 $\frac{1}{2}b(h) = 10m^{2}$
 $\frac{1}{2}b(h) = 5m^{2}$
 $\frac{1}{2}b(h) = 5m^{2}$
 $\frac{1}{2}b(h) = \frac{1}{2}b(h)$
 $\frac{1}{2}b(h) = \frac{1}{2}b(h)$

Perimeter =
$$b \frac{h}{5}$$

Name:

Natasha Garriloff

Perm Number: 6773113

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$2^{2}-2+2 \qquad (2+h)^{2}-(2+h)+2$$

$$4-2+2 \qquad 4+h^{2}-2+h-2 \qquad (h^{2}-h)-4$$

$$2+2 \qquad 2-2+h^{2}+h$$

$$0+h^{2}+h$$

 $(h^2-h)-4$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$f(n) = n^2 - 1 \qquad f(n) = n^2 - 1 \qquad f(2) = 2^2 - 1 \qquad f(3) = 3^2 - 1$$

$$f(0) = 1^2 - 1 \qquad f(2) = 4 - 1 \qquad f(3) = 9 - 1$$

$$f(0) = 0^2 - 1 \qquad f(1) = 0 \qquad f(2) = 3 \qquad f(3) = 8$$

$$f(0) = -1 + 0 + 3 + 8 + 15 \qquad f(4) = 4^2 - 1$$

$$f(4) = 16 - 1$$

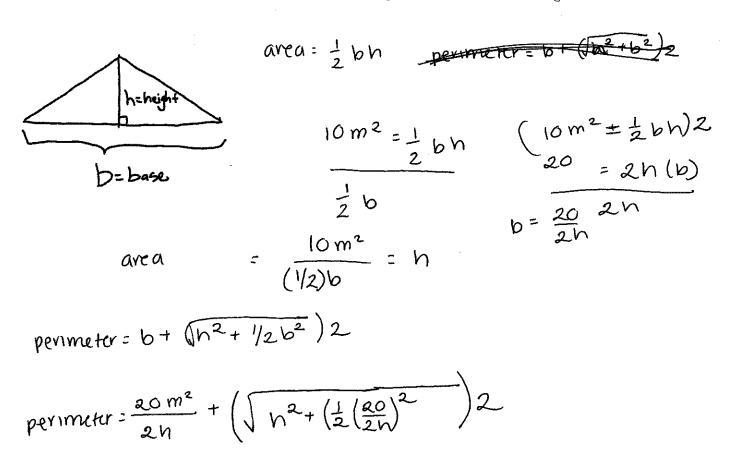
$$f(4) = 16 - 1$$

$$f(4) = 15$$

$$10 + 15$$

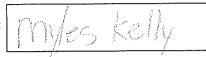
$$25 \qquad \sum_{n=0}^{4} f(n) = 25$$

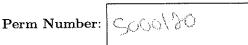
3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



Perimeter =
$$\frac{20 \text{ m}^2}{2 \text{ h}} + \left(\sqrt{h^2 + \left(\frac{1}{2} \left(\frac{20}{2 \text{ h}}\right)\right)^2} \right)^2$$

Name:



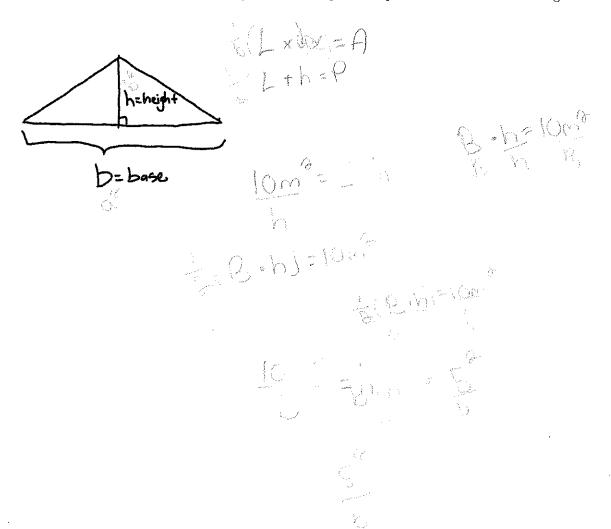


1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = \boxed{ }$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base h and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



Perimeter =

Quiz 5

Name:

Sean Anderpair

Perm Number:

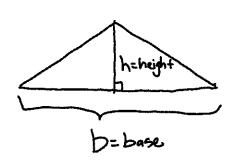
6120505

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$(2)^{2} - (2) + 2 \cdot ((2+h)^{2} - (2+h)+2) - 4$$
 $4 - 2 + 2$
 $2+2 = 4$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



$$A = \frac{1}{2}bh$$

$$10m^{2} = \frac{1}{2}bh$$

$$\left[2 \left[\frac{1}{2} \left[\frac{20m^2}{2n} \right]^2 + \frac{20m^2}{n} \right] \right]$$

Perimeter =
$$\left(2.\sqrt{12+120m^2/2}\right)+\frac{20m^2}{h}$$

Name:

Rebeleto Kabel

Perm Number:

5084769

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$(2)^2 - 2 + 2 = 4 - 2 + 2 = 4$$

$$(2+h)^2 - (2+h) + 2$$

$$h^2 + 3h + 4 - 4 = h^2 + 3h$$

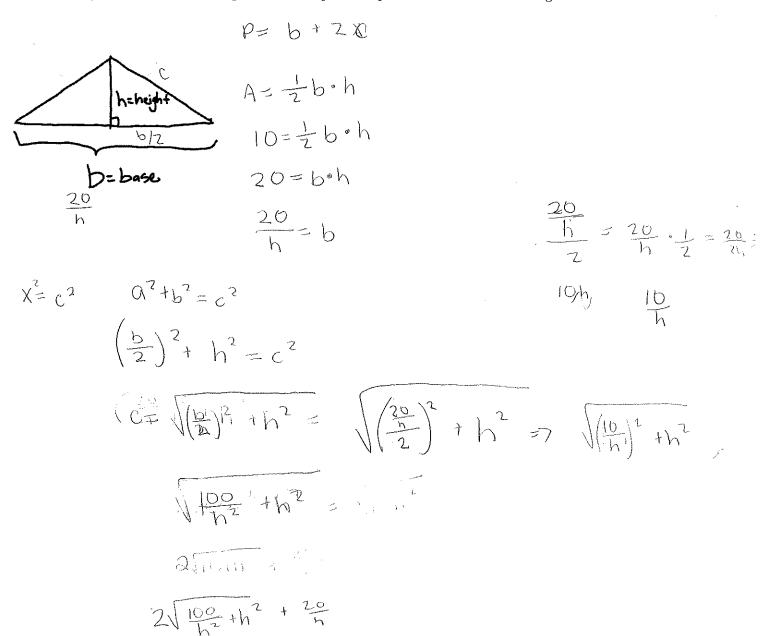
2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$(0^{2}-1)+(1^{2}-1)+(2^{2}-1)+(3^{2}-1)+(4^{2}-1)$$

 $(-1)+(6)+(3)+(8)+(15)$

$$\sum_{n=0}^{4} f(n) = \boxed{35}$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figue below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



Perimeter =
$$2\sqrt{\frac{100}{h^2} + h^2} + \frac{20}{h}$$

Name:

Zoey Moody

Perm Number:

45-64134

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

4+4h+h2+h
4+5h+h2

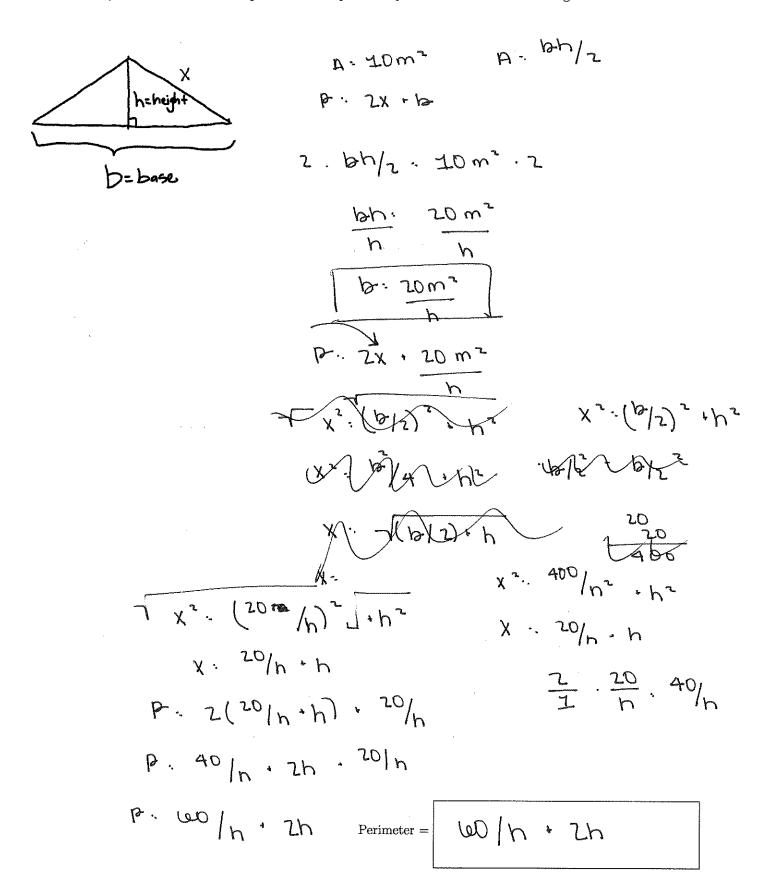
4 1 G (h+4) (h+1)

5h+h2

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height:



Name:

Elika Farredi

Perm Number:

3947280

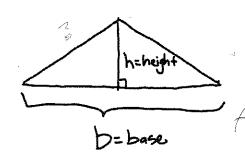
1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$x^{2}-x+2$$
 $x^{2}-x+2+h$
 $x+2$
 $y^{2}-2+2$
 $y^{2}-2+h$
 $y^{2}-2$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = \boxed{ }$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figue _____ below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



p=21+2w

a2+62=12

6 th TC2

h 2 + b = c 2

Perimeter =

Name:

Aiden Acasiabi

Perm Number:

5229869

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$(2+h)^2 = (2+h) + 2$$

$$(2+h)(2+h) - (2+h) + 2$$

 $(1+2h+2h+h^2 - 2+h + 2$

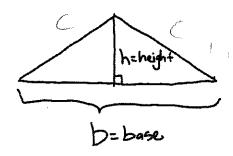
4+46+62-2+6+2

4-2=2+2=4

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$(1-1)+(4-1)+(4-1)+(16-1)$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figue below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



W3 4 P2 = C3

$$\frac{20}{5} + \frac{20}{5} + \frac{20}{5} = \frac{20}{5}$$

Perimeter =
$$\left(\frac{20}{h}\right) + 2 + \sqrt{h^2 + \left(\frac{20}{h}\right)^2}$$

Name:

Daniela Rawiret

Perm Number:

6163299

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

4-3h

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

0,3,8,15 \\ \frac{4}{n.0} \n^2-1

10 y (8)(18) 5 × 50 2.8

$$\sum_{n=0}^{4} f(n) = \bigcirc$$

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figue below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



Perimeter =		

Name: Horper Giordano

Perm Number:

5884150

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$(2^{2}-2+2)-(2^{2}-2)$$

$$(2+1)^{2}-(2+1)+2)-(2^{2}-2)$$

$$(2+1)^{2}-(2+1)+2)-(2^{2}-2)$$

$$(2+1)^{2}-(2+1)+2)-(2^{2}-2)$$

$$(2+1)^{2}-(2+1)+2)-(2^{2}-2)$$

$$(2+1)^{2}-(2+1)+2)$$

$$(2^{2}-2+2)$$

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h2+3h

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$. $N^2 - 1$

$$\sum_{N=0}^{4} N^2 - 1$$

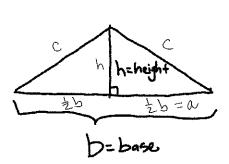
$$(0^2 - 1) + (1^2 - 1) + (2^2 - 1) + (3^2 - 1) + (4^2 - 1)$$

$$(-1) + (3) + (8) + (15)$$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

477

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



 $\frac{\text{Check's}}{\text{C}^2 + \text{h}^2 + \text{a}^2}$ $C = \sqrt{\text{h}^2 + \text{a}^2}$

$$P = b + 2C$$
 $A = \frac{1}{2}bh$
 $10 = \frac{1}{2}bh$
 $10 = \frac{1}{2}bh$

$$C = h^{2} + a^{2}$$

$$C = h^{2} + 2b^{2}$$

$$C = 1h^{2} + (2b^{2})$$

$$P = b + 2c$$

$$V$$

$$P = 20 + 2(-1)h^{2} + (2b)^{2}$$

$$\frac{1}{2}(2b)^{2}$$

Perimeter =
$$\frac{20}{N} + 2\left(\sqrt{N^2 + (10)^2}\right)$$

Name:

Ela Schulz

Perm Number:

h=+3h

5295183

(Dah) (2+h)

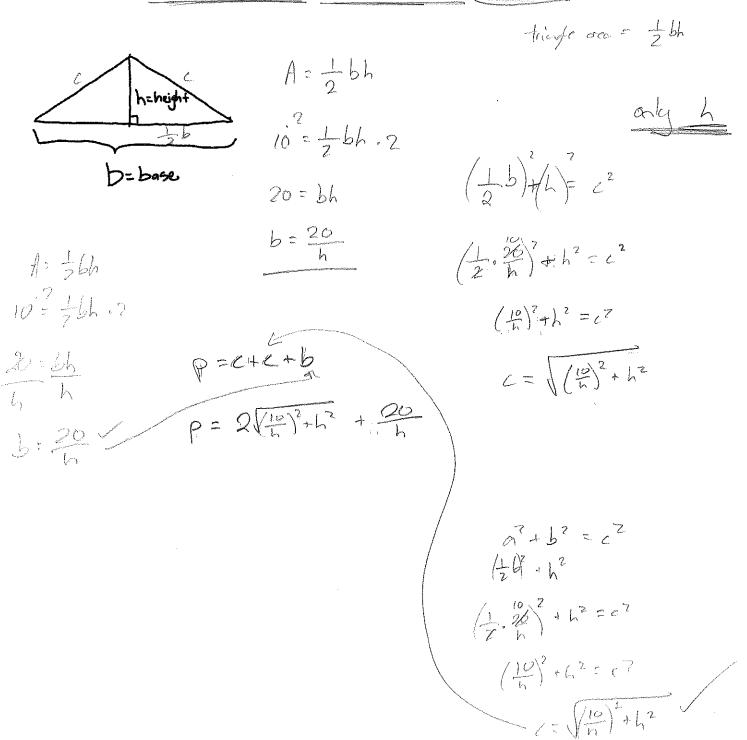
1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$\frac{4-7+2}{2*(2^2-2+2)} = \frac{4}{4}$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$(0^{7}-1)+(1^{7}-1)+(2^{2}-1)+(3^{7}-1)+(4^{9}-1)$$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



Perimeter =
$$2\sqrt{\left(\frac{16}{h}\right)^2 + h^2} + \frac{20}{h}$$

Name:

Wa Gurwitz

Perm Number:

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

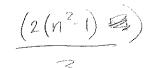
$$(h+2)(h+2) - (h+2) + 2$$

 $h^2 + 4h + 4 - h + 2 + 2$
 $h^2 + 3h + 4$

$$h^2 + 3h$$

$$n^4-n^2$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.



$$\frac{2\sqrt{2}-2}{3}$$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

$$n^2-1+(n^2-1)^2$$



$$\frac{bh}{a} = 10m$$

$$x = \left(\frac{1}{2}h\right)^{2} + h^{2}$$

$$x = \left(\frac{1}{2}h\right)^{2} + h^{2}$$

$$2\left(\left(\frac{1}{2}h\right)^2 + h^2\right) + 2h$$

$$\frac{1}{2}h^{2}+2h^{2}+2h$$
 $\frac{5}{2}h^{2}+2h$



5 h2+2h ${\bf Perimeter} =$

Name:

Desíree Espinoza

Perm Number:

4736211

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$(2+h)(x^2-x+2)$$

 $2x^2-2x+4$

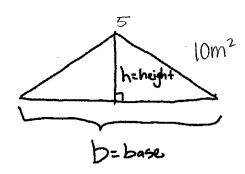
h2+3h

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\frac{4}{\sum_{n=0}^{4} n^{2}-1} \frac{n^{2}-1}{4}$$

$$\frac{4, 8, 12, 10, 20, 24, 28}{4}$$

$$\sum_{n=0}^{4} f(n) = \boxed{28}$$



90°

10m2 = area

perimeter

Name:

Maya Cooks

Perm Number:

6399730

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h. =+0 for involving h 2+h 2+h $4+h^2+2h$ 2+h 2+h

002 002th 24/-2 200 2th00 10

16 +h4 +36

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

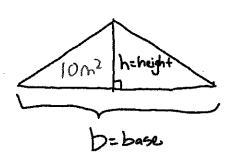
n=0 9-1 g

1

16-1

 $\sum_{n=0}^{4} f(n) = \begin{bmatrix} 2 & | & & & \\ &$

U51.ng



R-652 A-78°C2 PLAST PLOST ATLOW-L Lu Lu Low Low

P-(Au)³

Perimeter = $10^2 \left(\frac{A}{LW}\right)^3$

Name:

Jessica Taghizadeh

Perm Number:

6681472

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

4 +56 +62

(4+5h+h2)-4

54+12

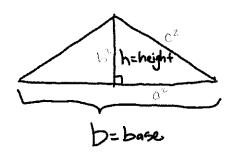
2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\frac{4}{5} \int_{0.20}^{0.20} (0^{3} - 1) \times (1^{3} - 1) \times (2^{3} - 1) \times (3^{2} - 1) \times (4^{3} - 1)$$

$$\frac{5}{5} \int_{0.20}^{0.20} (0^{3} - 1) \times (1^{3} - 1) \times (2^{3} - 1) \times (3^{2} - 1) \times (4^{3} - 1)$$

$$\frac{7}{5} \int_{0.20}^{0.20} (0^{3} - 1) \times (1^{3} - 1) \times (2^{3} - 1) \times (3^{2} - 1) \times (4^{3} - 1)$$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



$$1/2h^{2} + h^{2} = c^{2}$$
 $1/2h^{2} + h^{2} = c^{2}$
 $1/2h^{2} + h^{2} = c^{2}$

Perimeter =
$$\frac{2.5}{h} + h + c$$

Quiz 5_

Name:

Zue Albornoz

Perm Number:

6497796

1) If x is increased from $2 \log 2 + h$, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$- \frac{h^2 + 5h + 4 - 4}{4 + 3h + h^2} - 4$$

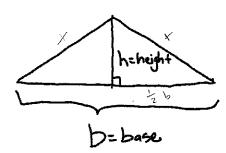
h2+3h

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$. $\sum_{N=0}^{4} (N^2 - 1)^{n} = \sum_{N=0}^{4} (N^2 - 1)^{n} = \sum_{N$

$$9 n\left(\frac{n+1}{2}\right)\left(\frac{2n+1}{3}\right) - 30 + 5(-1) = 25$$

M. M.

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



$$h^{2} + \left(\frac{1}{2}b\right)^{2} = x^{2}$$

$$h^{2} + \left(\frac{1}{2}\left(\frac{20}{N}\right)^{2} = x^{2}\right)$$

$$h^{2} + \frac{100}{h^{2}} = x^{2}$$

$$x = \sqrt{h^{2} + \frac{100}{h^{2}}}$$

$$A = \frac{1}{2}bh = 10$$

$$bh = 20$$

$$(b = \frac{20}{h})$$

$$P = b + 2x$$

$$P = \frac{20}{h} + 2\left(\sqrt{h^2 + \frac{100}{h^2}}\right)$$

$$P = \frac{20}{h} + 2\sqrt{h^2 + \frac{100}{h^2}}$$

Perimeter = $\frac{20}{h} + 2 \sqrt{h^2 + \frac{100}{h^2}}$

 $\frac{1(h+1)}{2}$ $\frac{h(h+1)}{2}$ $\frac{(2h+1)}{3}$

Quiz 5

Name:

In Huang

Perm Number:

3926409

: 3h+h2

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h. $(hange + 2h + 2h + h^2 - 4h + h^2 -$

$$2!, 2^{2} = 2 + 2$$

$$= 4 - 2 + 2$$

$$= 2 + 2$$

$$= 4$$

21h'(2(h)²-(2+h)+2

3h+h2

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

$$(D^{2}-1)+(1^{2}-1)+(2^{2}-1)+(3^{2}-1)+(4^{2}-1)$$

$$-1+(1-1)+(4-1)+(q-1)+(q-1)+(16-1)$$

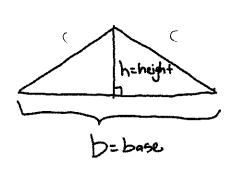
$$-1+3+8+1+$$

$$-1+3+8+1+$$

$$2+8+1+$$

$$10+1+$$

$$-2+5+1+$$



$$A = 10m^2$$
 $P = b + (+c)$
 $A = \frac{1}{2}bh$ $P = b + 2c$

Name: MUSON Montgomery

Perm Number: 30796

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$(2)^{2} - (2) + 2 = 4$$

$$(2+h)^{2} - (2+h) + 2$$

$$(2+h)(2+h)$$

$$4 + 4h + h^{2} + 1 - h + 1$$

$$h^{2} + 3h + 4$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

$$\frac{10}{10} = \frac{1}{2}bh$$

$$\frac{10}{2}bh$$

Perimeter =
$$2\sqrt{\frac{1600}{h^2} + h^2} + \frac{20}{h}$$

Candice Moreno Name:

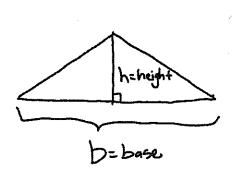
Perm Number: 8930448

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$2 = 3.4h$$
 $2^{2}-2+2$
 $4-2+2$
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2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

 $\sum_{n=0}^{4} f(n) = \left| \begin{array}{c} \\ \\ \\ \end{array} \right|$



Perimeter = $N = \frac{10 m^2}{5}$

Name:

Julie Haddad

Perm Number:

4700282

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$(2+h)^{2}-(2+h)+2$$

 $(2+h)(2+h)=4+2h+2h+h^{2}-2$
 $4+2h+2h+h^{2}+2-2+h$
 $4+3h+h^{2}+2-2+h$
 $4+3h+h^{2}+2-2+h$

 $h^2 + 3h$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

0 - |
| | 2 - | = |
| 2 2 - | = 3
| 3 2 - | = 8
| 4 2 - | = |5|

$$\sum_{n=0}^{4} f(n) = \boxed{2.5}$$

Perimeter =
$$80h + 20/h$$

Name: Nicholas Prasad

Perm Number:

5635750

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be

$$(2+h)^2 - (2+h) + 2$$

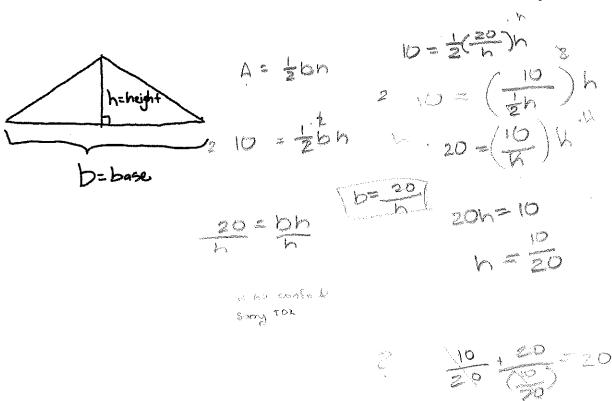
 $h^2 + 4h + 4$ $+ 4$
 $h^2 + 5h + 4$
 $h^2 + 5h + 4$

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

-11013.8115

25

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



Name:

CONNELL TRAINOR

Perm Number:

687289

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be

$$\propto$$
 \rightarrow 2

$$(2+h)^2-(2+h)+2$$

$$4-27$$
 4
$$(2+h)^{2}-t-h+2$$

$$4+4h+h^{2}-h$$

$$h^{2}+3h$$

$$h^2 + 3h + 4$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\frac{4}{2}$$
 $n^2 - 1$

$$(-1)+(0)+(3)+(8)+(15)$$

$$(0^{2}-1)+(1^{2}-1)+(2^{2}-1)+(3^{2}-1)+(4^{2}-1)$$



$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



$$\frac{1}{2}b \times h = 10$$
 $b = 296$

$$= \frac{20}{h} + 2\left(\frac{100}{h}\right)^{2} + h^{2}$$

$$= \frac{20}{h} + 2\left(\frac{100}{h^{2}} + h^{2}\right)^{1/2}$$

$$= \frac{20}{h} + 2\left(\frac{100 + h^{4}}{h^{2}}\right)^{1/2}$$

$$= \frac{1}{h} + 2\left(\frac{10}{h}\right)^{2} + h^{2}$$

$$= \sqrt{\left(\frac{10}{h}\right)^{2} + h^{2}}$$

$$= \sqrt{\left(\frac{10}{h}\right)^{2} + h^{2}}$$

$$= \sqrt{\left(\frac{10}{h}\right)^{2} + h^{2}}$$

Perimeter =
$$\frac{20}{h} + 2\left(\sqrt{\frac{10}{h}}\right)^2 + h^2$$

$\mathrm{Quiz}_{-}5$

Name:

Marc Nunez

Perm Number:

7042103

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

X= 2

X2 = 2+2

(2+L)= -(8+L)+2

4-2+2 =0

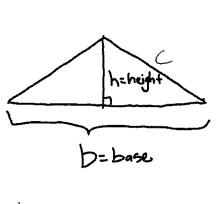
(2+b)(2+L) 4+76+86+63 444422 -(2+2) 2+34+12+2 443Lth2

U+3h+22

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$(0-1)+(1-1)+(4-1)+(9-1)+(16-1)$$

$$\sum_{n=0}^{4} f(n) = \boxed{}$$

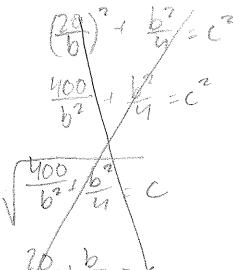


bl=70

b=42

$$h^2 + \left(\frac{b}{2}\right)^2 = C^2$$

$$h^2 + \left(\frac{b}{2}\right)^2 = C^2$$



$$h^{2} + (\frac{32}{2})^{2} = C^{2}$$
 $h^{2} + h^{2} = C^{2}$
 $\frac{1}{50} = C^{2}$

Perimeter =
$$\begin{bmatrix} 20 \\ 1 \\ 1 \end{bmatrix} \begin{bmatrix} 2 \\ 1 \\ 50 \end{bmatrix}$$

Name:

Christopher Boling

Perm Number:

608553 H

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$f(2) = 2^{2} - 2 + 2$$

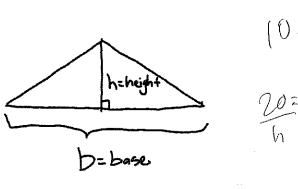
 $f(2) = 4 - 2 + 2$

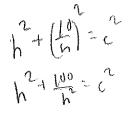
h.
$$f(2) = 2 - 2 + 2$$
 $(2+h)^2 - (2+h) + 2$
 $f(2) = 4 - 2 + 2$ $(2+h)^2 - (2+h) + 7$
 $f(2) = 4 - 2 + 2$ $(2+h)^2 + 4h + h^2 - h$
 $f(2) = 4$ $(2+h)^2 + 2h + 4h$

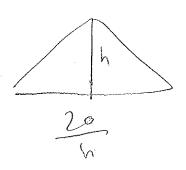
2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

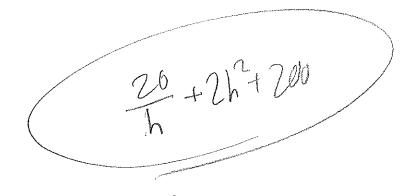
$$-(0) = -1$$

$$\sum_{n=0}^{4} f(n) = \boxed{\qquad \qquad}$$









Perimeter = $2h^2 + \frac{20}{h} + 200$

Name: Rilly Chark

Perm Number: 5155312

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$2^{2} - 2 + 2 = 4$$

 $(2+h)(2+h)^2-2-h+2$

4-2-12

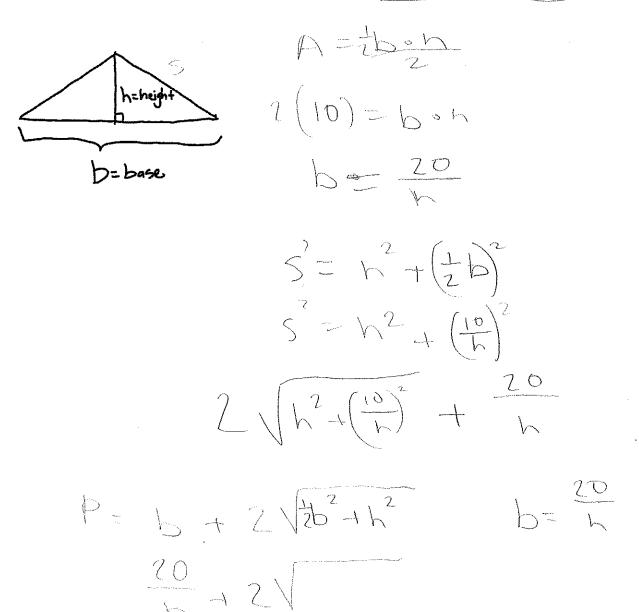
(h+2(h+2)

h2+4h

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

 $\frac{1}{2}$ $n^2 - 1 = -1 + 0 + 3 + 8 + 15$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



Perimeter =
$$\frac{20}{h} + 2\sqrt{\frac{(10)^2}{h}^2 + h^2}$$

Name: Victoria McNabb

Perm Number:

5171038

1) If \underline{x} is increased from $\underline{2}$ to $\underline{2+h}$, how much does x^2-x+2 increase? Your final answer should be in terms of \overline{h} .

in terms of h.

$$X = 2 \rightarrow X = 2 + h$$
 $X = 2 \rightarrow X = 2 + h$
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 $X = 2 \rightarrow X = 2 + h$
 $X = 2 \rightarrow X = 2 + h$
 $X = 2 \rightarrow X = 2 + h$
 $X = 2 \rightarrow X =$

$$(2+h)(2+h)$$
 $4+2h+2h+h^2$
 h^2+4h+4

 $h^2 + 3h$

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{\infty} f(n)$.

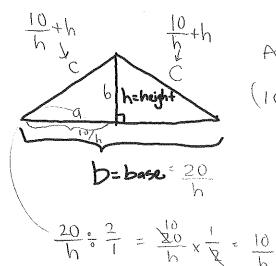
$$\sum_{n=0}^{4} h^{2} - 1$$

$$(10)^{2} - 1 + (11)^{2} - 1 + (2)^{2} - 1 + (3^{2}) - 1 + (4)^{2} - 1 +$$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$

10 +h + 10 +h

3) The side of a roof is going to be built. Its shape is an isosceles triangle with base b and height h (figure below). The area of this triangle is $10m^2$. Express the perimeter in terms of the height.



 $\left(\frac{10}{h}\right)^2 + (h)^2 = \sqrt{c^2}$

 $\frac{10}{h} + h = C$

h
$$A = \frac{1}{2}bh$$

$$(10)^2 = (\frac{1}{2}bh)^2$$

$$\frac{20}{h} = \frac{bh}{h}$$

$$0$$

$$b = \frac{20}{h}$$

$$P = \frac{20}{h} + 2\left(\frac{10}{h} + h\right)$$

$$P = \frac{20}{h} + \frac{20}{h} + 2h$$

$$= \frac{40}{h} + 2h$$

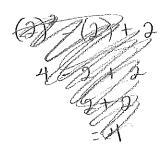
Perimeter =
$$\frac{40}{h} + 2h$$

Name:

Iiana De La Diva

Perm Number: 6591473

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be x 2 - x + 2 in terms of h.



$$= (2+h)^{2} - (2+h) + 2$$

$$= (2+h)(2+h) - 2+h + 2$$

$$= 4 + 2h + 2h + h^{2} - 2+h + 2$$

$$= h^{2} + 5h + 4$$

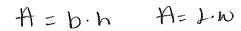
2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

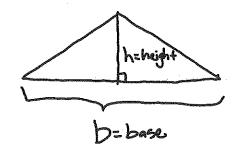
$$\sum_{n=0}^{4} n^{2} - 1 = (0)^{2} - 1 + (1)^{2} - 1 + (2)^{2} - 1 + (3)^{2} - 1 + (4)^{2} - 1$$

$$= -1 + 0 + 3 + 8 + 15$$

$$= 25$$

$$\sum_{n=0}^{4} f(n) = 25$$





$$A = b \cdot h$$

$$10m^{2} = \frac{1}{2} \cdot h$$

$$-\frac{1}{2} - \frac{1}{2} + 10m^{2}$$

$$h = -\frac{1}{2} + 10m^{2}$$

Perimeter =
$$-\frac{1}{2} + 10m^2$$

Name:

Isabella Bishop

Perm Number:

3760204

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

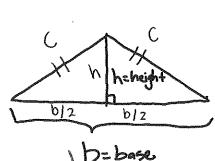
$$x=2$$
 $(2^{2})(-2)+2$ when $x=2$ its $x=2+b$

$$(2+h)^2 - (2+h) + 2$$
 $(2+h)(2+h) - \widehat{(2+h)} + 2$

$$h^2 + 4 + 3h$$

$$h^2 + 3h$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.



$$A = \frac{1}{2}bh^2$$

2)
$$10 = \frac{1}{2}bh^2$$

$$b = \frac{20}{h^2}$$

$$\frac{20! 10 = \frac{1}{2}bh^{2}}{\frac{70!}{h^{2}}b^{2}} = \frac{20}{h^{2}} \times \frac{10}{h^{2}} \times \frac{10}{h^{2}} = \frac{10}{h^{2}}$$

$$b = \frac{20}{h^2} \times \frac{1}{2}$$

$$\frac{b}{2}:\frac{10}{h^2}$$

$$\int_{1}^{2} h^{2} + \int_{1}^{2} c^{2}$$

$$\int_{1}^{2} h^{2} + \left(\frac{10}{h^{2}}\right) = \int_{1}^{2} c^{2}$$

$$P = \frac{20}{h^2} + 2 \sqrt{\frac{10}{h}} + h$$

$$\frac{h^2}{h} \quad C = \frac{\sqrt{10}}{h} + h$$

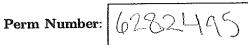
$$C = \sqrt{h^2 + \frac{10}{h^2}}$$

$$\frac{20}{h^2} + \frac{\sqrt{20}}{2h} + \frac{2h}{1}$$

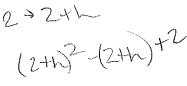
Perimeter =

Name:





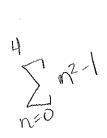
1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.



2 > 2+h (2+h) - (2+h) +2 4+4h + h^2-2-h+7 4+3hth

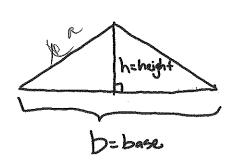
12+3h

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.



-1,93,2,25 -1,93,2,25

$$\sum_{n=0}^{4} f(n) = \boxed{ }$$



20m2 + 2 (20m2 th)

e=2++2=1=1=1=0= 0++12+ 2012 + 40m + h = P

 $(\pm b)^2 + h^2 = b^2$ $\pm b + h = a$ $200^2 + h$ 2n

\sim		-
(_)1	11Z	റ
w,	K-LE-	•

Name:	Bryan	Vida		

Perm Number:

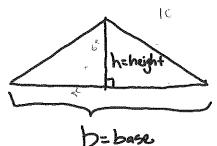
51	332	;	
·		- ,	•

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = \boxed{$$

a=bh= //2



The + Bi

Name:

Fleurette Juda

Perm Number:

5279351

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

48h+h2

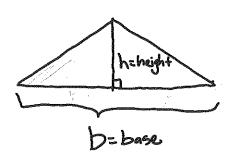
2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$h^{2}-1$$
 $0^{2}-1=-1$
 $1^{2}-1=0$
 $\lambda^{2}-1=3$
 $3^{2}-1=8$
 $4^{2}-1=15$

$$-1+0+3+5+15$$

$$= 25$$

$$\sum_{n=0}^{4} f(n) =$$



$$A = 10m^{2}$$

$$\frac{1}{2}b \cdot h = 10m^{2}$$

$$b = \frac{a0}{h}$$

$$2\left(\frac{b}{2}\right)^{2} + 2h^{2} = 2c^{2}$$

$$\left(\frac{b}{2}\right)^{2} + h^{2} = c^{2}$$

$$\left(\frac{b}{2}\right)^{2} + 2h^{2} = c^{2}$$

Perimeter =
$$\frac{1}{h^2} \left(\frac{100}{h^2} + 2h^2 \right)$$

Name:

Isabella Agrusa

Perm Number:

3962537

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$6 \begin{array}{c} X = 2 \longrightarrow X^{2} - X + 2 = 2^{2} - 2 + 2 = 4 - 2 + 2 = 4 \\ (X = 2 + h)^{2} - (2 + h)^{2} - (2 + h)^{2} - 2 + h + 2 \\ (4 + h^{2} - 2 + h + 2) \qquad \Delta H - (4 + h^{2} + h) \\ (2 + h^{2} + h + 2) \qquad \Delta h^{2} + h \\ (4 + h^{2} + h) \qquad \Delta h^{2} + h \end{array}$$

hzth

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} n^{2} - 1 = (0^{2} - 1) + (1^{2} - 1) + (2^{3} - 1) + (4^{2} - 1)$$

$$= (-1) + 6 + 3 + 8 + 15$$

$$= -1 + 3 + 8 + 15$$

$$= 2 + 8 + 15$$

$$= 10 + 15$$

$$= 125$$

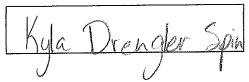
$$\sum_{n=0}^{4} f(n) = 25$$

A=10

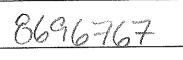
$$b \cdot h \cdot z = A$$
 $a^{2} + b^{2} = c^{2}$
 $b \cdot h \cdot z = 10$
 $b \cdot h \cdot z = 10$

Perimeter =
$$\frac{20}{h} + 2\left(\frac{20}{h} + h\right)$$

Name:



Perm Number:



1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$(2)^{2}-2+2$$

 $4-2+2$
 $=4$
Same

$$(2)^{2}-2+2 \quad vs. \quad (2+h)^{2}-(2+h)+2$$

$$4-2+2 \qquad h^{2}+4h+4-2-h+2$$

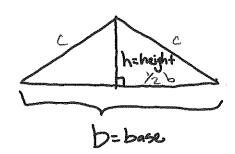
$$= 4 \qquad h^{2}+3h+4 \qquad same$$

$$h^2 + 3h$$

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

$$(6^{2}-1)$$
 + $(1^{2}-1)$ + $(2^{2}-1)$ + $(3^{2}-1)$ + $(4^{2}-1)$
-1 + 0 + 3 + 8 + 15

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



$$c^{2} = h^{2} + (\frac{1}{2}b)^{2}$$
 $c^{2} = h^{2} + \frac{1}{4}b^{2}$

$$\int c^2 = \sqrt{k^2 + \frac{1}{4} \left(\frac{20}{h^2} \right)}$$

$$C = \sqrt{k^2 + \frac{100}{k^2}}$$

$$C = \sqrt{k^2 + \frac{100}{k^2}}$$

area =
$$10m^2$$

area = $\frac{1}{2}b \cdot h$
 $10 = \frac{1}{2}b \cdot h$
 $\frac{20}{10} = \frac{1}{2}b \cdot h$

p= 2c+6

Perimeter =
$$2\sqrt{h^2 + \frac{100}{h^2}} + \frac{20}{h}$$

Name:

Mustpha Saeed

Perm Number:

4744215

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

$$X \rightarrow 2$$
 $2 \rightarrow 2 + h = x$
 $2 + h$
 $2 + 2h$
 $2 +$

h2+3h+4

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

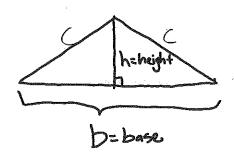
$$\sum_{n=0}^{4} n^2 - 1$$

$$-1 + 0 + 3 + 8 + 15$$

$$-1 + 11 + 15$$

$$10 + 15$$

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



$$A = 10 m^{2}$$

$$A = \frac{bh}{2}$$

$$20 = hh$$

$$\frac{20}{h} = h$$

$$\frac{20}{h} = h$$

$$\frac{b^{2}}{2} = \frac{b^{2}}{4h^{2}} + h^{2} = C^{2}$$

$$\frac{b^{2}}{4h^{2}} + h^{2} = C^{2}$$

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$$\frac{b^{2}}{4h^{2}} + h^{2} = C$$

$$\frac{406}{h^{2}} \times \frac{1}{4} = \frac{406}{4h^{2}}$$

$$\frac{106}{h^{2}} = \frac{h^{2}}{4}$$

$$\frac{106}{h^{2}} + h^{2} = C$$

$$\frac{b^{2}}{4} + h^{2} = c^{2}$$

$$\frac{b^{2}}{4} = c^{2} - h^{2}$$

$$b^{2} = (c^{2} - h^{2}) + 4$$

$$b = \sqrt{4c^{2} - 4h^{2}}$$

$$P = 2\left(\sqrt{\frac{h^{2}}{4} + h^{2}}\right) + \sqrt{4c^{2} - 4h^{2}}$$

$$\sqrt{4(\sqrt{\frac{h^{2}}{h^{2}} + h^{2}})}$$

Name:

Jose Justin

Perm Number: | 5345 78

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$(2)^2 - 2 + 2$$

1

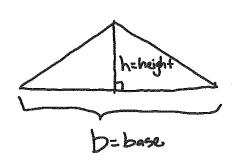
$$(2+h)^2 - (2+h) + 2$$

 $9+4h+h^2 - 2-h + 3$
 $h^2 + 3h + 4$

$$h^2 + 3h$$

2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

$$\sum_{n=0}^{4} f(n) = \boxed{25}$$



$$A = (2 \times w) \frac{1}{2}$$

$$\frac{20m^{2} = (h \times b) \frac{1}{2} + 2}{h}$$

$$\frac{20m^{2} = (h \times b)}{h}$$

$$\frac{20m^{2} = b}{h}$$

$$2\left(\frac{20m^2}{h}\right) + h$$

26 + h

Perimeter =
$$\begin{pmatrix} 40m^2 \\ 2h \end{pmatrix} + h$$

Name:

Perm Number:

1) If x is increased from 2 to 2+h, how much does x^2-x+2 increase? Your final answer should be in terms of h.

$$f(x)=2$$

$$f(x)=2+4$$

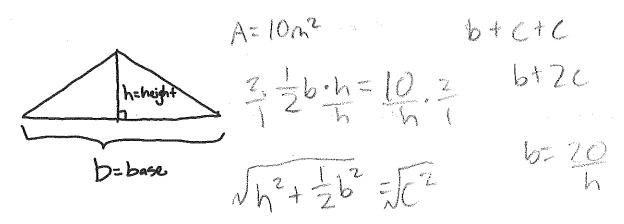
4+24+24+42+42+42 -(2+h) -4 4h + h2

34+62

2) If
$$f(n) = n^2 - 1$$
, compute $\sum_{n=0}^{4} f(n)$.

615

$$\sum_{n=0}^{4} f(n) = \boxed{75}$$



Perimeter =
$$\frac{20}{5} + \sqrt{\frac{100}{12}}$$

Name:

Kat Brydson

Perm Number:

5100805

1) If x is increased from 2 to 2 + h, how much does $x^2 - x + 2$ increase? Your final answer should be in terms of h.

2-12-12-4

(2+h)2-(2+h)+Z

(2+h)(2+h)

4 Mach 1 Link

4+4h-h+h 4+3h+h2

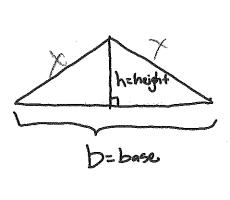
2) If $f(n) = n^2 - 1$, compute $\sum_{n=0}^{4} f(n)$.

12+3h

 $\frac{4}{2}$ n^2-1

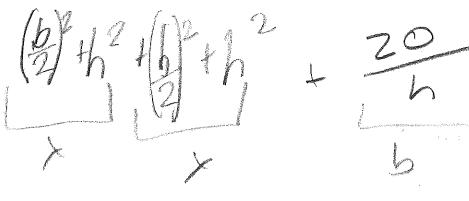
$$\sum_{n=0}^{4} f(n) = \boxed{2}$$

25



$$0 ex = ibh$$

$$10m^2 = ibh$$



(33) 2 h 2 + (32) 2 + h 2 + 20

(Sh) th (Shth)

Perimeter = $\left(\frac{20}{2h} \right) + h^2 + \frac{20}{h}$