Pre Placement Training and Aphtude Find n+1=3 i) Find 25 + 1 $n^{5} + \frac{1}{n^{5}} = (n^{3} + \frac{1}{n^{3}})(n^{2} + \frac{1}{n^{2}}) - (n^{4} + \frac{1}{n})$ $=(k^3-3k)(k^2-2)-k$ =(27-9)(9-2)-3=123(Ans) $n^{5} + n + \frac{1}{n} + \frac{1}{n^{5}} - n - 1$ Aii) $n^{7} + \frac{1}{n^{7}} = (n^{4} + \frac{1}{n^{4}})(n^{3} + \frac{1}{n^{3}}) - (n + \frac{1}{n})$ $47 \times (27-9)-3$ = 879 (Ans) $n^2 + \frac{1}{n^2} = 9 - 2 = 3$ n8+1=472-2

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

A)
$$y^2 + \frac{1}{y^2} = 1 - 2$$

$$(y-2)^{2}+3(y-2)+3=0$$

 $y^{2}-4y+4+3y-6+3=0$
 $y^{2}-y+1=0$
Divide by y both sides
 $y-1+1=0$
 $y=0$
 $y=0$

y = n+3

$$(32) n^2 + n = 5$$

Find
$$(n+3)^3 + \frac{1}{(n+3)^3} = ?$$

(23)
$$\pm f \cdot n^3 + 2n - 7 = 0$$
 m

$$find (n+4)^{3} + \frac{1}{(n+4)^{3}} = 0$$

$$y^{3} + \frac{1}{y^{3}} - 15 - 125$$

$$find (n+4)^{3} + \frac{1}{(n+4)^{3}} = 0$$

$$y^{3} + \frac{1}{y^{3}} = 110$$

$$(y-3)^2+(y-3)=5$$

$$=)y^2-6y+9+y-3=5$$

$$y^{2}-5y+1=0$$
 $y^{2}-5y+1=0$
 $y^{2}-5y+1=0$
 $y^{2}-5+\frac{1}{5}=0$
 $y^{3}+\frac{1}{9}=5$
 $y^{3}+\frac{1}{9}=5$
 $y^{3}+\frac{1}{9}=10$

Por If $n+1=2$
 $\frac{1}{n}=2$ then n is always
 $\frac{1}{n}=1$ always
 $\frac{1}{n}=1$
 $\frac{1}{n}=1$
 $\frac{1}{n}=1$
 $\frac{1}{n}=1$
 $\frac{1}{n}=1$
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(A8)
$$\frac{a}{b} + \frac{b}{a} = 2$$
 then $a-b=7$
(Aa) $\frac{a}{3} + \frac{1}{3} = 2$ then $\frac{a^2 + 1}{a^2} = 7$
(A1) $\frac{1}{3} = 5 = \frac{1}{3} = \frac{1}{3} = \frac{7}{3} = \frac{7}{3}$
(A1) $\frac{1}{3} = \frac{1}{3} =$

210) It n = 1 then i) 270 + 273 + 219 + 222 + 250 + 253 = ? GII) If $(n+\frac{1}{n})^2 = 1$ then i) $n^{136} + n^{133} + n^{166} + n^{153} + n^{33} + n^{36} = 7$ $\frac{n}{1+n} = 1$ then $n^3 = -1 + 3n^3 + 1 = 0$ [Note -) $\frac{n}{1+n} = -1$ then $n^3 = 1 + 3n^3 - 1 = 0$ 2000 n2+y2=0 then n2=0&& y=0 $n^2 + y^2 + z^2 = 0$ then n = 0, y = 0 22 + 20Q12) If (a-1)2+ (b+2)2+(C-1)2=0, then find the value of -36+2a +7c=? Q13) If n2+y2+ = 0 Find the value of n31+y31=? If n2+y2-4y-4n+8=0 then find m-yz? QUY) of protegy ty the 18 to though

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B14) I + (n+y-Z)2+(y+z-n)2+(z+x-y)2
     = 0 then find n+y+Z
A10) N = 1
      =)n3--1
       n3+1=0
       n183+n180+---=?
       n180 (n3+1) + 2253 (n3+1)
        =) 0 + 0 + 0 · -- = 0
 OAI) (a-1) = 0 (b+2) = 0 (6-1) =0
        =)a=1|b=-2|(=1
          : · 2a - 3b+7c = 2+6+7
 A14) ntg+ 7
        n+y-Z=0|y+Z-n=0|
                  Z+n-y20
         29=0
                  2+3 22=0
                   2)20220
           y=0
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1+3 = 2n = 0=) n=0:. n+y+z=0 (Ans)