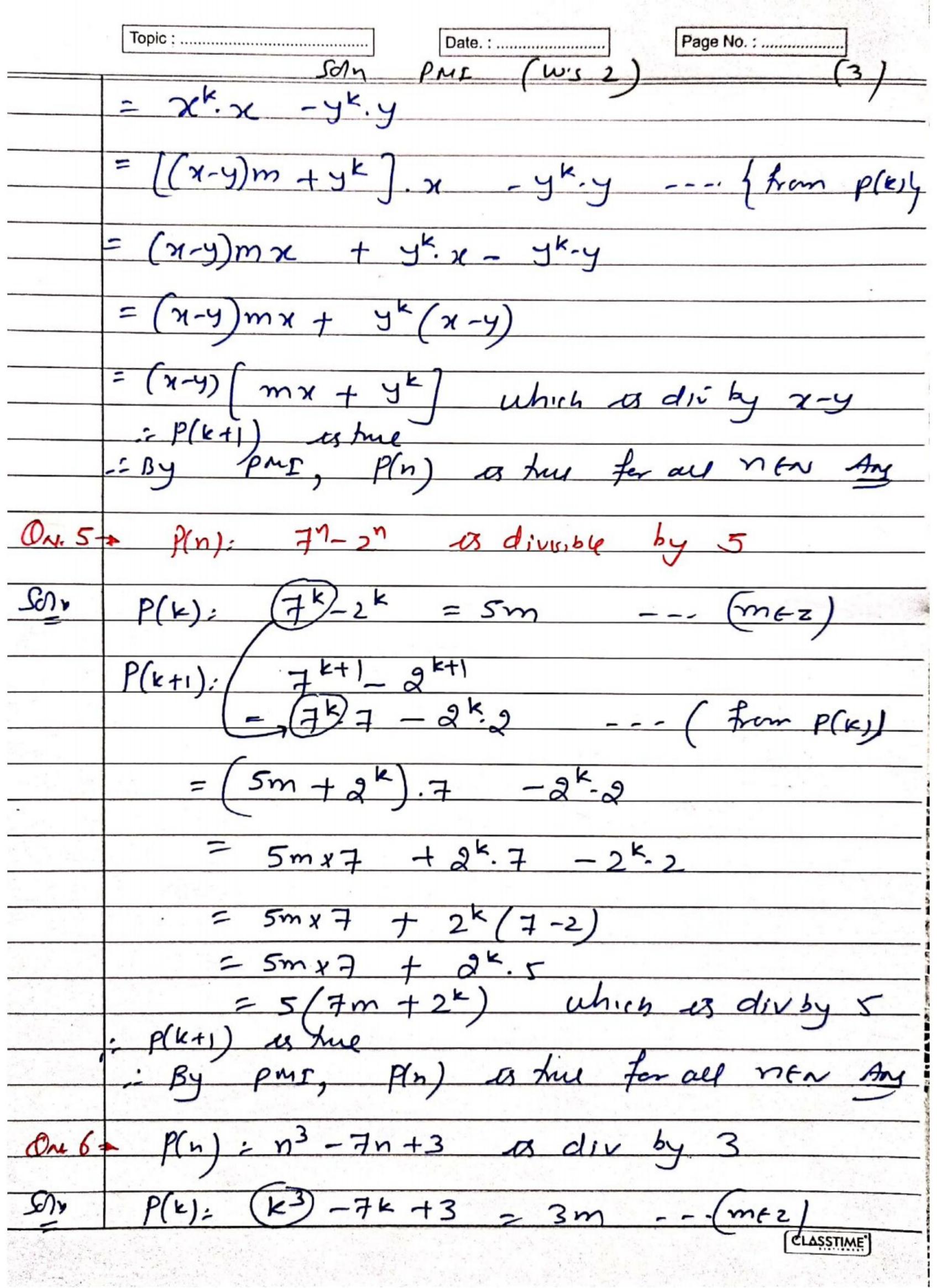
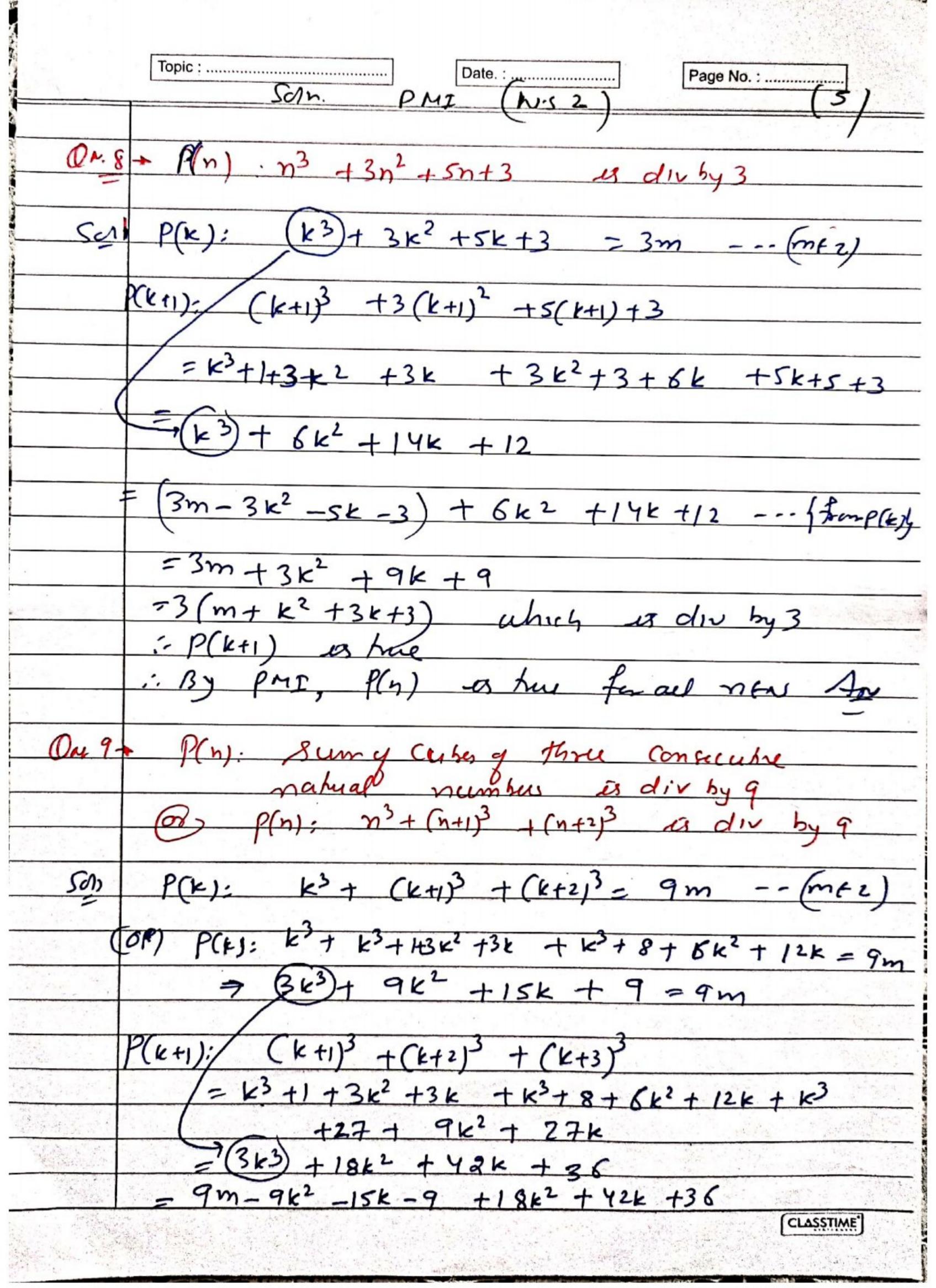


| Topic: |
|--|
| = 27 (41m + 14k) = Ahub a muntphy 2= |
| = 27 (41m + 14k) = thub a mentpuy 2= : p(k+1) estrue : By PMI, p(n) as true for all MEN Ans |
| Ous 3 - P(n) = n (n2+5) - 18 div by 6 |
| $\frac{\int_{0}^{\infty} P(k)}{P(k)!} \cdot \frac{k(k^{2}+5)}{(k^{3}+5k=6m)} = 6m \cdot (m+2)$ |
| $= \frac{(k+1)(k^2+2k+6)}{(k^2+2k+6)}$ |
| 2 (k3)+ 2 k2+ 6 k + k2+2 k+ 8 |
| $= 6m - 51 + 2k^2 + 6k + k^2 + 2k + 6$ |
| $= 6m + 3k^2 + 3k + 6$ $= 3(2m + k^2 + 1 + 2)$ |
| $= 6(m+1) + 3(k^2+k) (k^2+k) is$ $= 6(m+1) + 3(2p) $ |
| = 6(m+1) + 3(2p) $= 6(m+1) + 3(2p)$ $= 6(m+1) + p7$ $= 6(m+1) + p7$ $= 6(m+1) + p7$ |
| Whith as divby 6 |
| is p(k+1) as the is By PMI, p(n) as they for all non say |
| ON 4- P(n)= xn-yn is divisible by x-y |
| $\frac{\int \Omega_{k}}{\int P(k)!} \frac{P(k)!}{\chi^{k+1}} \frac{\chi^{k}}{\chi^{k+1}} = (\chi - y)m \qquad m \in 2$ $\frac{\int P(k+1)!}{\int \chi^{k+1}} \frac{\chi^{k}}{\chi^{k+1}} \frac{\chi^{k}}{\chi^{k+1}} \frac{\chi^{k}}{\chi^{k+1}} \frac{\chi^{k}}{\chi^{k}} = (\chi - y)m \qquad m \in 2$ |
| CLASSTIME*) Scanned with CamScanner |



| | Topic: |
|--------------|---|
| Jane British | |
| | P(K+1) = (K+1)3 -7(K+1)+3 |
| | |
| | $= k^{3} + 1 + 3k^{2} + 3k - 7k - 7 + 3$ |
| | $= (k^3) + 3k^2 - 4k - 3$ |
| | = (3m+7k-3) + 3k2 -4k-3 { fomp(k)} |
| | |
| | $=3m + 3k^2 + 3k - 6$ |
| | = 3 (m+ k² + k-2) which is div by 3 = p(k+1) is true = By PMI, p(n) is true for any mEN ANY |
| Nation | i g(K+1) os true |
| | in By PMI, P(n) is try for all NEW thy |
| ON5- | + P(n): 3.5 ²ⁿ⁺¹ + 2 ³ⁿ⁺¹ is div by 17 |
| Control of | |
| Solv | P(k): (3.52k+1) + 23k+1 = 17m (nez) |
| | |
| | P(K+1)/3.52K+3 + 23K+4 |
| | $\left(-(3.5^{2k+1}).5^{2}+2^{3k+1}.2^{3}\right)$ |
| | |
| | $=(17m-2^{3k+1}).25+2^{3k+1}.8$ |
| | |
| | = 17mx a5 - 23k+1.25 + 23k+1.8 |
| | = 17mx25 - 17.23k+1 |
| | |
| | = 17 (25m - 23k+1) which is div by 19 |
| | ·- P(K+1) of the · By P(MI, P(n) a true for all now |
| | |
| | |
| | |



| Topic : | |
|--|------|
| Som. (W.) PMI | |
| $= \frac{9m + 9k^2 + 27k + 27}{= 9(m + k^2 + 3k + 3)}$ | |
| | |
| in p(k+1) as true | |
| : By PMI , P(n) as true ferale non | |
| | |
| ONI 10 Pln1. 52n+2 - 24n -25 is div by 576 | |
| | |
| Son P(K): (52K+2) - 24K -25 = 576m | |
| | |
| P(k+1):/ 5244 - 24 (k+1) -25 | |
| | |
| $= (5^{2k+2})_{5^{2}} - 24k - 24 - 25$ | |
| | - 34 |
| = (576m + 24k +25).25 - 24k-49 | |
| | |
| = 576m x 25 + 600k + 625 - 49 - 24k | |
| = 576m x 25 + 600k + 576 | |
| | |
| = 576/25m + k + 1) | |
| | |
| where is div by 576 | |
| i p(u+1) a hue | |
| : By pms, p(n) as the for all new | - |
| | A |
| On 1+ Mn: 11n+2+122n+1 is duby 133 | |
| San P(k): (11k+2) + 122k+1 = 133m (m+2) | |
| 2K+3 | |
| 19 km / 11" + 12 | 3 |
| | 400 |
| = G(K+2) 2K+1 12 | |

| | PM1 501 (WS 2) (71 |
|------|---|
| | |
| | $= (133 \text{m} - 12^{2k+1}) \cdot 11 + 12^{2k+1} \cdot 12^{2}$ |
| | |
| | $= 133m \times 11 - 12^{2k+1} + 12^{2k+1} \times 144$ |
| | |
| | = 133m x11 + 122k+1 (144-11) |
| | |
| | = 133m x11 + 12 (x13) |
| | |
| | = 133 (11m + 12 24+1) |
| | = 133 (11m + 12 24+1) Which is div by 133 |
| | |
| | -= P(u1) -05 hue |
| | is By PMI, P(n) to true for any non |
| 10-2 | A |
| | |
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| | (CLASSTIME) |