As n 3

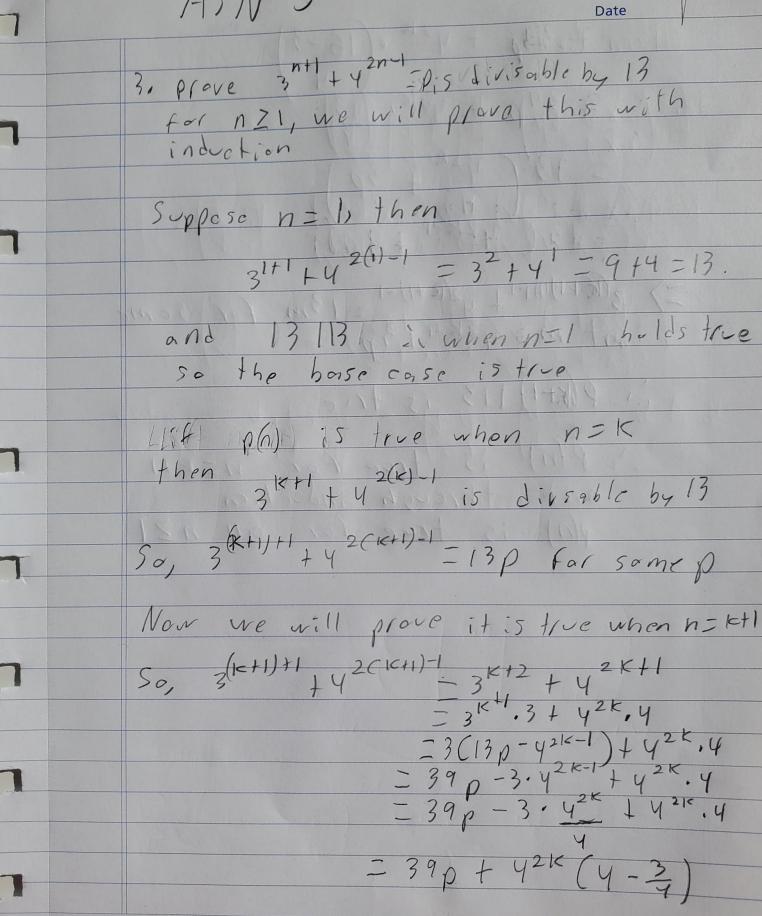
I.
$$A = \begin{pmatrix} a & b \\ c & b \end{pmatrix}$$
 $X'' = ax' + bx'$
 $X'' = ax' + b$

Discontinued () 1944 + 1911 2. (px+qy) - (pq) (rx+sy) - (rs) (a(px+qy)+b(rx+sy)) ((px+qy)+d(rx+sy)) 3. (a(px+qy)+b(rx+sy)) - () ((px+qy)+d(rx+sy)) - () 4. A.B = (ab) (pg) - (patrb gatsb)

(cd) (rs) - (potrb) gctsd) 5. (patrb qatsb X - (xpat xrb + yqa + ysb)
pctrd qctsd y - (xpc+ xrb) + yqc + ysd $\left(\begin{array}{c} a\left(px+qy\right)+b\left(rx+sy\right)\\ e\left(px+qy\right)+d\left(rx+sy\right) \end{array}\right)$ A.B) (x) = ((x) proven by 3=6 with 3 being A(x") (with (x')) Jerived from B(x)) = (x") = ((3)) Coming from (A.B)(x) =

Page

2, \(\frac{1}{2} \) \(\xi \) \(\xi \) \(\frac{1}{2} + 4^2 + \cdots \cdots + \frac{1}{2} \) \(\frac{1}{2} + 4^2 + \cdots \cdots + \frac{1}{2} \) \(\frac{1}{2} + 4^2 + \cdots \cdots + \frac{1}{2} \) = \frac{1}{2} (3 (x+1)^2 = \frac{1}{2} (3 x+1) (3 (x+1)) = = (9K2+61C+1) 29 E K2 + 6 E K + E 1 $9 \stackrel{\Lambda}{\geq} k^2 = 9 \left(c^2 + 1^2 + \dots + n^2 \right)$ = 9 n (n+1)(2n+1) = 3n (n+1) (2n+1) 6 = 0 K = 0 K = 3 n h+1) E 1 = 1+1+1, + 1=n+1 3 n(n+1/2n+1) + 3 n(n+1) +(n+1) $= (n+1) \left(\frac{6n^2 + 3n + 6n + 2}{2} \right)$: = (n+1) (6 n2 + 9n+2) = closed form



Page 5