1) 15 the gien Pla).

prove you are allow the some throng  $t(x+1)^2 = (x+1)(x+2)(2x+3)$ 7-a.PCD2 1221. n. 12 1.2.3 41 C. Show PCXtI) is the gien PG. a. 13.11 mod la 210 / 2. prove you are allow the 8.3 mol 19 25 17. h. [n/K] = [(n-1)/k] +1 Sublan = (+1)2 Two cases. One where no lok = 0 Ome where note \$0 Kr 2 and N=4. At K= Z ar 125 15h 2 (42) 14/2l = 13/2 1 tl 3 = 2t1 2= 1+1 5.1 鞋 Let I(x) near town State stops out X 1. Basic: T(6) = the beans First Stens Inhau: T(x) = true if T(x+) = true At T(OH), tre here T(O)=tre F(x)= n173" At x=107 At xt1 1 = 2853 n! (at) vs 3.3°

And 6173

5,2.

1. Let POD = You can run x mines

P(0) = true

P(1) = true

P(2) = true

P(2) = true

P(3) = true

P(4) = true

P(4) = true

P(4) = true

P(4) = true

The lattice step!

Assuming that PCID, POD). PCKD is tree
PCK+D is tree becase PCK-D is tre.

P(18) = tre bene 6.3

P(19) = tre bene 5.2 + 3.3

P(20) = tre bene 5.4

P(21) = tre bene 7.8

b. Assump that PC18), PC10), P(20). PCk) is the, c. Prove that PCK+V) must be true.

PCH is the if PCK-3) is true. It is

Prevos Ks. Also, 18 is LCM(3,5) + min (3,5)=18.

7. And 0,200 can be formed be.

Any amul zon be formed with 25 and 55.

Busic stop p(s) = tre sil

Assume PC4), PCS)...P(k)

Step:

Prince pck+D is the live know pck+D is the

So pck+D is also the.

There will be N-1 breaks read.

P(p) = 0

Assume PCD. PCD. PCK) are all validy.

For CK+1), we all one more column to the end of the bar. Break it off, and you got I + PCK).

Since PCk) is the PChtl) is also the

a. f(1) = 3, f(2)=5, f(3)=7, f(4)=4 b. F(1)= 3, f(2)=a, f(3)=27, f(4)=81 5, a. No besse for N=1, f(1-2)=f(-1) is unlefing 5. Yes. f(x)= -x +1. Asum FCO) = 1 Then assuming flow, flow flow is the Prove f(kt) is tre. P(K+1) is the if F(K) is the, so they are both the C FOR 17-2, FC9 = -X+4 13. f, = 1 2m f(1)= tre a. f(x)= f(x) +2 b. F(x) = 3 fz = f, tfz = 3 Fy= Fz+(f,+ Fz) C. ilk fs = (f, +f2) + f2 + F2:(f, +f2) F62 F5 + F4

f(k) = f(k) + f(k-1) one given the f(1), if(x)... f(h)

5.4 To fine 51 m2 5, n211, b3 Find 5. 41. mp (3, 11,5) find \$4.31. 5 (mp (3, 5, 5) mol (s) fine 3.21 5 mp(3,2,5) FIN 2: 11 Find 1 5 mp (1) retun 2 reen 1: roen 6 reform SM reun 120. 1/1 ( Monn Carribles) refundamin (array, inverti), array (invex)) Uh., reenx.x? us. Sheaf ghzpok} 5 b 2 a f 9 } {h. 2 po k} 5 b 2 2 (F 93 5 hzp3 50 4) 5 b3 { La} 5 F3 {gg 5 h3 \$ 3 503 500

Sab 23 S Fgz Shpzz Sko3