I dide of bear had I have about by the slevers blood south

MA 346 HWZ.

1.3 2. (5 1 = 51 + 11 + 21 + 31 + 41 + 51 + 61 + 71 + 81 + 71 + 161 = 1+1+0.5+0,1666+0.4166x10+0.8333 40-2+0.1388x10-2 +0-1984×10-3+ 0-2481×10-4+ 0.2755×10-5+ 0,2755×10-6 2.7666 x10 + 0-8333 W0-2 + B.1388 x10-40. 1984x103+ +0.4166x10-1 0.248/x10-4 + 0.205x10-5 + 9.2055 x10-6 = 2.716 x10'+0,1984 x10-3+0.2481x 10-4 +0.275 x00\$ +0.2756 x10-6 - 0.2716×101= 2.7/6/ absolute enon = (c-0,2716×0') = 2281×10-3 relative en = 12.28/2, 10-51 = 8.39×10-4 d. Z ((as)) = 101 + 41 + 81 + 7 + 61 + 51 + 4 + 7 + 61 + 61 + 61 - 0.3628×107 + 0,3628×106 + 0.4030×105 + 5040 + 720 + 120 + 24 + 6 + 1 + 1+ = 0.2756x10-6+0.2756x10-5+0.2481x10-4+0,1984x10-3+0,1386x10-2+ 0.8333x10-2+0.4166x10-1+0.1666+0.5+1+1 = 0.3031x10 4 0.2481x10-4+ ... = 0.2784 x10-4+0.1984 x10-3+. = 0.2262x10-3+0.1388x10-2+1... = 0.1614 ×10-2 + 0.8333 ×10-2+ 11. = 0.9947 x10-2 + 0.4166 x10-1+ ... = 0.5160 x10-1+0.1666+ = 0.2182 x10-1+0.5+ ... = 0.7182 ×10++2= 12.718/ absolute ener = (e-2,748/2/0,2818×10-3) Taylor with h volation avestions @ back.

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6.12c Araphus 2x+y=-1,x+ y=2, x-3y 25, there is nosdulin to this system of equations, as all three times verer pass through the same point. 2d. The solution is a like, where X = -5x3+5, Xb= 2x3-2 Because there are three variables and only two earstrons, the most precise asolution can be is a line, 8d/1012 | i= 1=p / 1012 | i=2=p 0-1-1-3 Mcmare 00337 Solder 00332 00000-17] 1=3=p. 27 -Xy = -1 => Xyz1 11012 => -3x3-3x4=-3=-3x3-32-3=K3=0 0-1-1-3 -X2-X3-X12-3=>-X2-0-1--3=>-X2-2=>X222 00 -3 -3 -3 X, +x2+xy=2=> X,+2+1=2=> X, =-1 000-1-1

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10 1 -1 x -2 1 -1 x -2 -1 2 - + 3 -> 0 1 0 1 >> x 1 1 2 1 2 1 -1 x 2+24 11-12-2 0 10 1 0 0 1-2 2+24-1-2 a. No solutions when 1-2=0 and 2+22- (1+d) ±0 d2=1 2=1=>2+2(i) - (1+1)= 3 L d= 11 d29052-2- (1-1) =0. No solutions when 21 6. Intinte sailos When 1-x200 and 2+2d- (1+2/20) Q 22-1 Inthole solutions when &==1. C/ Xxx 1 (1-22) x3 = 2+25-1(1+2) X,-1+2x3=-2

(AB) (AB) (2+6+3 4+4+15 1+0+6 1-2+9+0-4+6+0 -1+0+0J 19 B'A1= 2+6+3 8+6+5 -2+9+5 9+4+15 16+4+25 -4+6+0 1+0+6 4+0+10 -110+0 11 237 mirs -45-28-19-98 38-315 19 4514 -23-14 -11-49 22-161 2, AB2 322-315 154-133 495-437 7-17 -- -- 7 [-73 117-277] defAB= 11.-73+23.117+7.-277 - - 51 AQ = tel (miners) $= \pm 5 \begin{bmatrix} -73 & 37 & 7 \\ 117 & 60 & -21 \\ -277139 & 58 \end{bmatrix}$

Taylouth h rotation. 1) f(x+th) > f(x0)+f'(x0)h+ f"(x0) h2 $f(x)=|_{n}(x)|_{x}f(x)=\frac{1}{2!}h$ $f(x)=|_{n}(x)|_{x}f(x)=\frac{1}{2!}h$ $f(3-2h)=|_{n}(3)+\frac{1}{3}\cdot(-2h)+\frac{1}{2}(3)^{2}(-2h)$ $=|_{n}(3)+(-\frac{1}{3}h)+\frac{1}{2}(3)^{2}(-2h)^{2}$ $=|_{n}(3)+(-\frac{1}{3}h)+\frac{1}{2}(3)^{2}(-2h)^{2}$ $=|_{n}(3)+(-\frac{1}{3}h)+\frac{1}{2}(3)^{2}(-2h)^{2}$ 2) f(x0+h)=f(x0)+f'(x0)h+ f"(x0)h2 f(x)= (x) m f(x)= mx -1 f"(x)= m.(m-1)(x) m-2 f(xo-h) = xm + mxm-1(-h) + m.(m-1) · x(-h)2 2 xm - m xm-1 h + m. (h-1) -xm-2 (h2)