T. Pe ZZ - >+ Ry (>>) y=x-2 + x,y + ZZ

· Este reflectiva?

Fie x eZ x-2 x 20 nu au loc x R x -3 R nu e uflexive

\* Fole simelier?

Fri x, y ∈ Z q. ( x R y ~)

y = x -2 ~ x = y +2

x) x dy -2 rur ourse loc

y Rx ~ R rur este simulice

· Esse antisimetica?

Fie x, y = 2 a. (x Ry >)

$$x = y - 2$$
 =>  $x = y - 2 = x - 2 - 2 =$   
 $y = x - 2$   $x - y$   $x - y - y$ 

» Nu am perechi cu xRy sil yRx

or relation ede antisimetrica. (Fabrel, implica orice). Ede transitive,

fie x, y, z ∈ Z) a.î XRy, x = y-2 yRz 1 y = z-2

X=2-2-7 >

Dhi + 7-2, monder R2, dui R nu e naurétée

11. 
$$=$$
  $(-1)^{m-1}$   $(1+x)^m$ 

c, Studiati natura seriei Sot de d

Van 7 (-0) (1+x) = 2 Van II

 $a_{n} = \frac{-1}{m^{2}}$   $a_{n} = \frac{-1}{(-1)^{n-1}}$   $a_{n} = \frac{(-1)^{n-1}}{\sqrt{n}}$ 

) | au | = 1 1 | (m+1) = \frac{1}{4^{m+1}(m+1)^2} = \frac{1}{4^m n} \frac{1

R= 4 > S Zenzm / ACPt 12/54 ? pt 2-4 2 (-1)<sup>M-1</sup> ym \[
 \limits\_{\pi\_1}^{\pi\_2} = \\
 \limits\_{\pi\_1}^{\pi\_2} = \\
 \limits\_{\pi\_1}^{\pi\_2} = \\
 \limits\_{\pi\_2}^{\pi\_2} = \\
 \limits\_{\pi\_2}^{\pi -1  $\geq \frac{(-1)^n}{n^2}$ 

$$\frac{1}{N^2} \rightarrow 0$$

$$-\frac{2}{2}\left[-1\right]^{\frac{1}{N-1}}\left(-\frac{1}{N}\right)^{\frac{1}{N-1}}$$

$$\frac{2}{N-1}\left[-\frac{1}{N-1}\right]^{\frac{1}{N-1}}\left(-\frac{1}{N}\right)^{\frac{1}{N}}$$

$$\frac{2}{N-1}\left[-\frac{1}{N-1}\right]^{\frac{1}{N}}\left(-\frac{1}{N}\right)^{\frac{1}{N}}$$

$$\frac{2}{N-1}\left[-\frac{1}{N}\right]^{\frac{1}{N}}$$

2 auz ~ Ac pt 12/24 Ac pt 2=4 si x>0 Apt 2=4 si x>0 Apt 2=-4 si x=0 Apt 2=-4 si x=0

1+ x=4 -0 X=3 1+ x=-4 - X=-5

-4

$$\frac{1}{2} \left( \frac{-1}{4} \frac{\sqrt{1-1}}{\sqrt{1-1}} - \left( \frac{1-\frac{1}{2}}{2} \right)^{\frac{1}{2}} \right) = \frac{1}{2}$$

$$\frac{1}{2} \frac{(-1)^{m-1}}{5^m} \cdot \left(-\frac{3}{2}\right)^m =$$

$$-\frac{1}{5}\left(\frac{1}{2}\right)^{\frac{1}{2}}\left(\frac{3}{2}\right)^{\frac{1}{2}}$$

$$-\frac{9}{2}\left(\frac{3}{8}\right)^{1}=-\frac{3}{3}$$

$$S_{N} = -\frac{2}{2} \left( \frac{3}{8} \right)^{1/2} = -\frac{3}{5}$$

$$X + X^{2} + X^{3} + \dots + X^{N} = \frac{1}{2}$$

$$X + X^{2} + X^{3} + \dots + X^{N-1} = \frac{1}{2}$$

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$$X - 1 + X + X^{2$$

2. XM= 3 x + 5 x - ... + (2M+1) 2 9 m M ×+1 monoton nematig 0 441 = X EN = 041 > 0 (2 W+3) L luin XM = luin 0 m+1-0 y

Nove Nove 10 m = 1 lui (2 M+3) x = (M+1) x+1 = = (M+1) x+1 = M x+1 (x+1 M+ Cx+1 M+...  $\lim_{M \to \infty} \frac{(2M+3)^{2}}{M^{2}+(M+1)M^{2}+...+1-M^{2}+1}$ 

$$\frac{2^{4}}{(2^{4})^{3/2}} = \frac{2^{4}}{(2^{4})^{3/2}} + \dots$$

$$\frac{2^{4}}{(2^{4})^{3/2}} = \frac{2^{4}}{(2^{4})^{3/2}} + \dots$$

$$\frac{2^{4}}{(2^{4})^{3/2}} = \frac{2^{4}}{(2^{4})^{3/2}} = \frac{2^{4}}$$

$$\frac{C_{2}=3C_{2}}{C_{3}=9C_{3}}\frac{1}{27}\begin{vmatrix} -\lambda & -1 & 1 \\ -3 & -3\lambda & -3 \\ 9 & -9 & -9\lambda \end{vmatrix}$$

$$\frac{C_{3}=9C_{3}}{C_{3}}\frac{1}{27}\begin{vmatrix} -\lambda & -1 & 1 \\ -1 & -\lambda & -1 \\ 1 & -\lambda & -1 \end{vmatrix}$$

$$\frac{C_{1}=C_{1}-C_{3}}{C_{3}}$$

$$(1+\lambda)^{2}(2-\lambda)$$

$$\lambda = 1 \qquad m_{1} = 2$$

$$\lambda_{2} = 2 \qquad m_{2} = 1$$

$$Subspection proprion
$$\lambda_{1} = -1 \qquad (x_{1}) \qquad (x_{2}) \qquad (0)$$

$$(A+1_{3}) \qquad (x_{2}) \qquad (x_{3}) \qquad (x_{3}) \qquad (x_{3})$$$$

Cz = 
$$\frac{C_1}{3}$$

S = 1

Cz =  $\frac{C_1}{3}$ 

X, we pp

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$$d = 0 p = 9$$
  $v_{\lambda_1} = (-1, 0, 9)$   
 $d_{\lambda_1} = 2$ 

$$\times 1, \times_2$$
 not pp,  $\times 3 = \times$  There see  $\left(-2, -\frac{1}{3}\right) \left(\times_1\right) = -2 \left(\frac{1}{3}\right)$ 

$$-2 \times 1 - \frac{1}{3} \times 2 = -\frac{1}{9} = \frac{1}{3}$$

$$-6 \times 1 - \times 2 = -\frac{2}{3}$$
 $-6 \times 1 - 4 \times 2 = \frac{2}{3}$ 

$$3x_{2} = -d$$
 $9x_{2} = -d_{3}$ 
 $-3x_{1} + 2d_{3} = d_{3}$ 
 $-3x_{1} = -d_{3}$ 
 $x_{1} = -d_{3}$ 
 $x_{2} = -d_{3}$ 
 $x_{3} = -d_{3}$ 
 $x_{4} = -d_{3}$ 
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 $x_{7} = -d_{5}$ 
 $x_{7} = -d_{5}$ 
 $x_{7} = -d_{5}$ 

$$2 \in \mathbb{R}^{4}$$
 $1 \neq 2 = (1, -3, 9)$ 
 $2 = 9$ 
 $2 \neq 3 = 9$ 
 $3 \neq 3 \neq 3 = 9$ 
 $3 \neq 3 \neq 3 \neq 9$ 
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1 h

$$A_{BD} = \begin{pmatrix} -1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & 2 \end{pmatrix}$$

 $B_{B}$  -  $\{(1,3,0), (-1,0,9), (1,-3.9)\}$