1 Introducing

$$I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

Martix additions

Result will have max no

AB & BA (! (ommutative) (AB) C = A(BC) (Associative)

Matrix addition is associative & commutative Matrix subtraction is not associative // commutative

frot the case, say

"Not conformable"

(x 3y) (y 3x)

(x a) (x a) (x a)

(bielvin Matrices $B = \begin{pmatrix} 4x & 1 \\ 0 & 3 \end{pmatrix}$

AB is symmetric

$$-16 \text{ K} = 2+9 \text{ K} = \begin{pmatrix} 2 & 3x \\ -4 & 5z \end{pmatrix} \begin{pmatrix} 4x & 1 \\ 0 & 3 \end{pmatrix}$$

$$-25n = 2$$

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$$x = -\frac{2}{25} //$$

$$8x 2+9x$$

$$-16x -4x+15n$$