

Matrix Operations vs. Array Operations

a = 1 2 3 4	B = 5 6 7 8
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Matrix Operations		
a*b	$1*5+2*7$ $1*6+2*8$ $3*5+4*7$ $3*6+4*8$	Answer = 19 22 43 50
a/b	$1*(-4)+2*7/2$ $1*3+2*(-5/2)$ $3*(-4)+4*7/2$ $3*3+4*(-5/2)$	Answer = 3.0000 -2.0000 2.0000 -1.0000
a^2	$1*1+2*3$ $1*2+2*4$ $3*1+4*3$ $3*2+4*4$	Answer = 7 10 15 22

Array Operations		
a.*b	$1*5$ $2*6$ $3*7$ $4*8$	Answer = 5 12 21 32
a./b	$1/5$ $2/6$ $3/7$ $4/8$	Answer = 0.2000 0.3333 0.4286 0.5000
a.^2	$1*1$ $2*2$ $3*3$ $4*4$	Answer = 1 4 9 16