Ma2 Answer Sheet

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Task 2: *Assigning Vectors & Performing Operations*

Part A: Complete the table below.

Mathematical Operation	MATLAB Answer/Response	Explanation of the Result
`Arowvector + Arowvector`	0 2 4 6	Matlab pluses the firs 1 with the second 1 and then first 2 with the second 2 etc.
`Arowvector + Browvector`	4 3 2 1	Its 4+0 2+1 0+2 3+(-2)
`Arowvector + Ascalar`	3 4 5 6	3+0 3+1 3+2 3+3
`Arowvector – Arowvector`	0 0 0 0	1-1 2-2 3-3 4-4
`Arowvector – Crowvector`	Error	Matrix dimensions don't agree, Crowvector is 1x3 while Arowvector is 1x4
`Acolvector + Bcolvector`	-4 2 4 6	-4 +0 1+1 2+2 3+3
`Arowvector + Bcolvector`	-4 -3 -2 -1 1 2 3 4 2 3 4 5 3 4 5 6	Adds arowvector to each element of Bcolvector

Part B: Complete the table below.

Mathematical Operation	MATLAB Answer/Response	Explanation of the Operation
`Arowvector * Browvector`	Error	Have to add a dot infront of the *
`Arowvector .* Browvector`	0 2 0 -6	4*0 2*1 0*2 -2*3
`Arowvector * Ascalar`	0 3 6 9	Multiplies each element or Arowvector by 3

`Arowvector .* Ascalar`	0 3 6 9	Multiplies each element or Arowvector by 3
`Arowvector ./ Browvector`	0 0.5000 Inf -1.5000	0/4 ½ 2/0 3/-2
`Arowvector ^ Ascalar`	Error	Incorrect dimension
`Arowvector .^ Ascalar`	0 1 8 27	Raises each element of Arowvector to the power of 3

Task 3: *Compare Scalars & Vectors using Relational Operators*

Step 2.

	MATLAB Answer/Response	**Explanation of the Operation**
a.	**1 1 1 1**	**1 means true and all element of Aarray is indeed greater than Barray so all four is 1 which means true.**
b.	**0 1 1 1**	**Without the ~= 1 sign the answer would be 1 0; -3 16 so the ~= returns true and false**
c.	**1 1 1 1**	**Answer_b < 1 time 3 is greater than (Aarray – Answer_b) and Barray**
d.	**error**	**Dimensions don't agree**
e.	**1 0 0 1 0 0**	**Concatenate Cvector to the bottom of Barray and if it equals Carray it returns 1 otherwise 0**

Step 3.

	MATLAB Answer/Response	**Explanation of the Operation**
a.	**2 2**	**Any() eliminates the answers that equal 0**

b.	**1 0**	**Multiplies them together and eliminates elements that equal 0**
c.	**0 1**	**Declares if all of Carray is greater than 1**
d.	**1**	**Determines if any of the answers equal 0 and elimate them then determines if all of the answers are nonzero or true.**
e.	**1** **64** **4096**	**find non zeros in Barray to the power of elements in Carray that is greater than 5**
f.	**1 3**	**Find elemnts in Darray that equals 1**