

Quiz 19 Key — MA16020 — April 13, 2018

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Min	Mean	Max
1	5.9	10

$$A = \begin{bmatrix} 1 & 4 & -1 \\ 10 & 0 & 2 \end{bmatrix} \quad B = \begin{bmatrix} 3 & 6 \\ 1 & 7 \end{bmatrix} \quad C = \begin{bmatrix} 2 & 3 \\ 4 & 6 \\ -1 & 2 \end{bmatrix}$$
$$D = \begin{bmatrix} 6 & 3 & 0 \\ 1 & 2 & 0 \end{bmatrix} \quad E = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \quad F = \begin{bmatrix} 2 & 4 \\ -8 & 6 \\ 0 & 0 \end{bmatrix}$$

DO NOT perform any of the following computations. Instead, state the dimensions of the resulting matrix. If the operation does not make sense using the standard matrix operations, answer “not defined” instead of giving the dimensions.

1. $3A + 2C$
2. DCD
3. AE
4. $D + F$
5. FB
6. $FA + CD$
7. $DC - B$
8. D^2
9. B^3
10. FED

1. not defined	6. 3×3
2. 2×3	7. 2×2
3. not defined	8. not defined
4. not defined	9. 2×2
5. 3×2	10. 3×3