

**Quiz 19 — MA16020 — April 13, 2018**

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

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.  $3A + 2C$

6.  $FA + CD$

2.  $DCD$

7.  $DC - B$

3.  $AE$

8.  $D^2$

4.  $D + F$

9.  $B^3$

5.  $FB$

10.  $FED$