Algebra II, Quiz 16.1-16.2

For **1-4** evaluate the expressions using

$$A=\begin{pmatrix} 1 & -1.1 \\ 0.9 & 0.1 \end{pmatrix}, B=\begin{pmatrix} -4 & 1 \\ 0 & 3 \end{pmatrix}$$

1) $10\,\mathbf{A}+\mathbf{B}$

2) $\mathbf{A}^2$ (meaning multiply A by A)

3) $\mathbf{AB}+\mathbf{BA}$

4) $\mathbf{ABA}$

For **5-8**, give the dimensionality (rows, columns) of the expression **A(BC)**, or write "Undefined" if the operation is undefined.

5) **A** is 2x3, **B** is 2x4 and **C** is 4x2

6) **A** is 3x4, **B** is 4x2 and **C** is 2x5

7) **A** is 2x3, **B** is 3x2 and **C** is 3x2

8) **A** is 3x4, **B** is 2x4 and **C** is 4x4