

Practice for 5. 2 Operations with matrices

(Complete after watching both parts of section 2.)

The following problems will help you practice the material you learned today. Once you are finished check your solutions. Once done, you can work on your WeBWorK homework.

$$\text{Given } A = \begin{bmatrix} 3 & 2 \\ -1 & 5 \end{bmatrix}$$

$$B = \begin{bmatrix} -2 & 0 \\ 3 & 4 \end{bmatrix}$$

$$C = \begin{bmatrix} 1 & 0 \\ -2 & 4 \\ -1 & 3 \end{bmatrix}$$

$$D = \begin{bmatrix} 0 & -2 & 1 \\ 3 & 0 & 4 \end{bmatrix}$$

Compute each of the following. Some are not possible. So state.

a. $2A-3B$

b. $C + D$

c. AC

d. C^2

e. BD

f. $2D$

g. $B^2 + 2A$