Bellwork 5th hr Alg 2A Tuesday, January 10, 2017

Enter these matrices on the graphing calculator then use them to answer the questions on this bellwork.

$A\begin{bmatrix} 6 & 1 \\ -3 & 4 \end{bmatrix}$ $B\begin{bmatrix} -9 & 10 \\ 2 & 0 \\ 7 & 5 \end{bmatrix}$ $C\begin{bmatrix} -4 & 1 \\ 8 & 12 \\ -14 & 9 \end{bmatrix}$ $D\begin{bmatrix} 7 & -7 \\ -6 & 1 \end{bmatrix}$ $E\begin{bmatrix} 15 & -1 \\ 0 & 20 \end{bmatrix}$

Find each resulting matrix.

1. $A - 2D$

2. $3B + 2C$

3. $A - (D + E)$

4. Solve each equation for Matrix X

a) $3C - X = B$

b) $-2X + 2D = E$

Bellwork 4th hr Alg 2A Monday, January 9, 2017

Enter these matrices on the graphing calculator then use them to answer the questions on this bellwork.

$A\begin{bmatrix} 6 & 1 \\ -3 & 4 \end{bmatrix}$ $B\begin{bmatrix} -9 & 10 \\ 2 & 0 \\ 7 & 5 \end{bmatrix}$ $C\begin{bmatrix} -4 & 1 \\ 8 & 12 \\ -14 & 9 \end{bmatrix}$ $D\begin{bmatrix} 7 & -7 \\ -6 & 1 \end{bmatrix}$ $E\begin{bmatrix} 15 & -1 \\ 0 & 20 \end{bmatrix}$

Find each resulting matrix.

1. $A - 2D$

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4. Solve each equation for Matrix X

a) $3C - X = B$

b) $-2X + 2D = E$

Alg 2A ~~4~~th Hour Bellwork Answers

(1) $A - 2D = \begin{bmatrix} -6 & 15 \\ 9 & 2 \end{bmatrix}$ (2) $3B + 2C = \begin{bmatrix} -35 & 32 \\ 22 & 24 \\ -7 & 33 \end{bmatrix}$

(3) $A - (D + E) = \begin{bmatrix} -16 & 9 \\ 3 & -17 \end{bmatrix}$

(4) a) $3C - X = B$

$+X \quad +X$

$3C = B + X$

$-B \quad -B$

$3C - B = X$

$X = \begin{bmatrix} -3 & -7 \\ 22 & 36 \\ -49 & 22 \end{bmatrix}$

b) $-2X + 2D = E$

$-2D \quad -2D$

$-\frac{1}{2}(-2X) = (E - 2D)^{-\frac{1}{2}}$

$X = -\frac{1}{2}(E - 2D) = \begin{bmatrix} -.5 & -6.5 \\ -6 & -9 \end{bmatrix}$