Algebra 2
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Name $\qquad$
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April 6, 2020 Period $\qquad$
Home Instruction: What is a Matrix? Matrix-EQ Form
Fill in the missing coefficients or matrix entries. Missing values are marked with capital letters.

1) $\left[\begin{array}{ll}2 & 5\end{array}\right]$ represents $A x+5 y$
2) $\left[\begin{array}{ccc}7 & A & 35\end{array}\right]$ represents $B x-17 y+C z$
3) $\mathrm{Ax}-\mathrm{By}$ is represented by $\left[\begin{array}{ll}4 & -12\end{array}\right]$
$\mathrm{A}=$ $\qquad$ , $\mathrm{B}=$ $\qquad$
4) $-2(A x+6 y-4 z)$ can be represented by $-2\left[\begin{array}{lll}4 & B & C\end{array}\right]$

$$
\mathrm{A}=\ldots, \mathrm{B}=\ldots, \mathrm{C}=
$$

7) $\left[\begin{array}{ccc}3 & 6 & -2 \\ 4 & 3 & 6 \\ -1 & 8 & 12\end{array}\right]=\left[\begin{array}{ccc}A & 6 & B \\ 4 & C & 6 \\ D & 8 & E\end{array}\right]$
$\qquad$
A = , $\mathrm{B}=$ , C = , $\mathrm{D}=$ E = $\qquad$
8) $\left[\begin{array}{cc}A & 2 \\ 3 & -B\end{array}\right]=\left[\begin{array}{cc}\frac{1}{2} & 2 \\ C & -5\end{array}\right]$
$\mathrm{A}=$ $\qquad$ , $B=$ $\qquad$ , $\mathrm{C}=$ $\qquad$
9) $\left[\begin{array}{cc}-2 & 3 \\ 5 & -7 \\ C & D\end{array}\right]=\left[\begin{array}{cc}-2 & A \\ B & -7 \\ -9 & 12\end{array}\right]$

$$
\mathrm{A}=\ldots, \mathrm{B}=\ldots, \mathrm{C}=\ldots, \mathrm{D}=
$$

8) $\left[\begin{array}{ccc}-3 & A & 22 \\ D & -4 & -28\end{array}\right]=\left[\begin{array}{ccc}B & 4 & C \\ 6 & E & F\end{array}\right]$
$\qquad$
A = , $B=$ , $\mathrm{C}=$ , $\mathrm{D}=$ $\mathrm{E}=\ldots, \mathrm{F}=$ $\qquad$
9) $3 x+B y+C z$ is represented by $\left[\begin{array}{lll}A & 6 & -14\end{array}\right]$
