5-4 Matrices

Name: _____ Time› Start: _____ Finish: _____ Total Time = _____

$A = \begin{bmatrix} 3 & 4 & 7 \end{bmatrix}$ $B = \begin{bmatrix} 2 \\ 7 \\ 1 \end{bmatrix}$ $C = \begin{bmatrix} 4 & 2 \\ 6 & 5 \end{bmatrix}$ $D = \begin{bmatrix} 4 & 2 & 8 \\ 3 & 3 & 5 \\ 1 & 1 & 6 \end{bmatrix}$

$E = \begin{bmatrix} 4 & -2 \\ 3 & -1 \end{bmatrix}$ $F = \begin{bmatrix} 5 & 2 \\ 2 & 1 \end{bmatrix}$ $G = \begin{bmatrix} -3 & 0 \\ -2 & 6 \end{bmatrix}$

_____ 1. What size is matrix A?

_____ 2. What size is matrix B?

_____ 3. What size is matrix C?

_____ 4. What size is matrix D?

Calculate the following:

5. E + F

6. 2C

7. G – F

8. CE

9. FG

10. CG

11. DD

12. AB

13. AD

SAT Questions

_____ 14. If the average of 3y, 4y, and (y – 5) is 9, what is the value of y?

_____15. Where $a \neq 1$, $\frac{(a^7 - a^6)}{(a-1)} =$

A. $\frac{a}{(a-1)}$ B. $\frac{1}{(a-1)}$ C. $a^6 - a^5$ D. a^5 E. a^6

_____16. Paul's average (arithmetic mean) for 3 tests was 85. The average of his scores for the first 2 test was also 85. What was his score for the third test?

A. 80
B. 85
C. 90
D. 95
E. It cannot be determined from the information given.