

Name _____ Due Date _____ Period _____

6.2 Solving Systems with Matrices

Solve the following systems using matrices on your calculator. (make sure the variables are lined up correctly in order to place them in a matrix.)

1) $3x - y + 4z = -17$ $4x + 3y - 5z = 4$ $x + 6y + 2z = -6$	Matrix: 	Number of unknowns _____	Answer
2) $m + n + p + q = 7$ $-2m + 4n - p + 3q = 1$ $4m - 2n + 4p + q = 4$ $-m + 2n - 3p - 2q = 8$	Matrix: 	Number of unknowns _____	
3) $s + t - u = 5$ $2s - 5t + 3u = 10$ $-s + 6t - 7u = 2$	Matrix: 	Number of unknowns _____	
4) $a + 2b + 3c + 4d + 5e = 6$ $-a - 2c - 4e - 3b - 2c = 12$ $7b + 4a - 7c - e + 8d = -2$ $8c - 2e - 3a + 2b = 14$ $d + 6a - 2c - 5b - 4e = 0$	Matrix: 	Number of unknowns _____	
5) $2h - j + 4k - 2m = 23$ $2j - k + 4h + 3m = -1$ $8k - 5j + h - 4m$ $j - 2k - 3h = -6$	Matrix: 	Number of unknowns _____	