

Name _____

Date _____ Hour _____

Solving Systems of Equations in Three Variables #2

Solve each system of equations.

1. $-4x - y + 3z = -9$
 $3x + 2y - z = 3$
 $x + 3y - 5z = 29$

2. $3x + 5y - z = 12$
 $-2x - 3y + 5z = 14$
 $4x + 7y + 3z = 38$

3. Heather downloaded some television shows. A sitcom uses 0.3 gigabyte of memory; a drama, 0.6 gigabyte; and a talk show, 0.6 gigabyte. She downloaded 7 programs totaling 3.6 gigabytes. There were twice as many episodes of the drama as the sitcom. Write a system of equations for the number of episodes of each type of show. How many episodes of each show did she download?