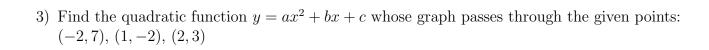
MAT 171 - CLASS NOTES - Section 8.2: Systems of Linear Equations in Three Variables

1) Determine if the ordered triple (5, -3, -2) is the solution of the system:

$$\begin{cases} x+y+z=0\\ x+2y-3z=5\\ 3x+4y+2z=-1 \end{cases}$$

2) Solve the system:

$$\begin{cases} 2x + 3y + 7z = 13 \\ 3x + 2y - 5z = -22 \\ 5x + 7y - 3z = -28 \end{cases}$$



4)	A person invested \$17,000 for one year, part at 10% , part at 12% , and the remainder at 15% . The total annual income from these investments was \$2,110. The amount of money invested at 12% was \$1,000 less than the amount invested at 10% and 15% combined. Find the amount invested at each rate.