

Ex 2) Borrowing Money: A small corporation \$1,500,000 to expand its line of shoes.
Some of the money was borrowed at 7%, some at 8%, and some at 10%. Use a system of equations to determine how much was borrowed at each rate if teh annual interest was \$130,500 and the amount borrowed at 10% was four times the amount borrowed at 7% solve the system using matrices.

$$X = 1 \text{ at } 7\%$$
 $Z = 4\chi$
 $Y = 1 \text{ at } 8\%$
 $Z = 4\chi$
 $Y = 1 \text{ at } 8\%$
 $Z = 4\chi$
 $Y = 1 \text{ at } 8\%$
 $Z = 4\chi$
 $Y = 1 \text{ at } 8\%$
 $Z = 10\%$
 $X + Y + Z = 1500,000$
 4χ $Z = 0$
 $1 \text{ for } 150,000$
 4χ $Z = 0$
 $1 \text{ for } 150,000$
 $1 \text{ for } 150,000$
 $0 \text{ for } 150,000$
 $0 \text{ for } 2000$
 $0 \text{ for } 2000$
 $0 \text{ for } 350,000$
 $0 \text{ fo$