

30(b)

$$x - 2y = 5$$

$$-3x - 10y = 11$$

$$\frac{1}{4} \begin{bmatrix} 10 & 2 \\ 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} 5 \\ 11 \end{bmatrix} = \frac{1}{4} \begin{bmatrix} 72 \\ 26 \end{bmatrix} = \frac{1}{2} \begin{bmatrix} 36 \\ 13 \end{bmatrix} = \frac{1}{2} \begin{bmatrix} 18 \\ 6.5 \end{bmatrix}$$

multiply matrix

$$2 \times 2 \cdot 3 \times 2$$

have to be the same

$$\begin{bmatrix} 1 & 2 & 4 \\ -3 & 1 & 5 \end{bmatrix} \begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 5 \\ 3 & -2 & 1 \end{bmatrix} = \begin{bmatrix} 17 & 2 & 9 \\ 14 & -12 & -9 \end{bmatrix}$$

2×3 3×3 2×3

Add together

How much do I need in an account to withdraw \$350 at the beginning of each month for 15 years if the account pays 7.2%?

present value Annuity Due

If I put \$350 into an account paying 7.2% at the end of each month for 15 years, how much will I have?

future value ordinary Annuity