

Warm Up 1.11

Solve each system of equations using **matrix reduction**.

1.

$$\begin{cases} 4x - y = 7 \\ -6x + 2y = 8 \end{cases}$$

2.

$$\begin{cases} 4x + 2y = -8 \\ x - 2y = -7 \end{cases}$$

3. Create a system of equations and then solve using matrix reduction.

Carlos and Clarita are getting ready for the Black Friday sales. Target has killer deals. All of their DVDs are one low price, and all of their t-shirts are another low price. Clarita is planning to buy 6 t-shirts and 4 DVDs for \$52. Carlos is planning on buying 10 DVDs and 4 t-shirts for \$64. Figure out how much each DVD and each t-shirt costs.