1. Solve the system using substitution

$$
\begin{gathered}
-4 x+3 y=1 \\
3 x+y=10
\end{gathered}
$$

2. Solve the system using elimination (also known as linear combination)

$$
\begin{gathered}
3 x-5 y=25 \\
2 x+4 y=2
\end{gathered}
$$

3. A rectangular lot whose perimeter is 320 feet is fenced along three sides. An expensive fencing along the lot's length costs $\$ 16$ per foot, and an inexpensive fencing along the two widths costs only $\$ 5$ per foot. The total cost of the fencing along the three sides is $\$ 2140$. What are the lot's dimensions?
4. Solve the system of three equations

$$
\begin{gathered}
x+2 y-3 z=50 \\
2 x+y+2 z=3 \\
2 x-5 y+4 z=-79
\end{gathered}
$$

5. Solve the system of three equations

$$
\begin{gathered}
7 z-3=2(x-3 y) \\
5 y+3 z-7=4 x \\
4+5 z=3(2 x-y)
\end{gathered}
$$

6. Solve the system of three equations

$$
\begin{aligned}
x+3 z & =-5 \\
5 x-2 y & =-22 \\
5 y-6 z & =36
\end{aligned}
$$

7. Find the quadratic equation $y=a x^{2}+b x+c$ whose graph passes through the given points. $(-2,7),(1,-2),(2,3)$.
