

Correct. Add the first and third equations: $-x + 10z = 6$

Add the second and third equations: $x + 8z = 12$

Add these two new equations: $18z = 18$, so $z = 1$

Substitute into the first new equation: $-x + 10 = 6$, so $x = 4$

Substitute x and z into the third equation: $12 + y + 4 = 14$, so $y = -2$