

Correct. Multiply the second equation by 5: $-10a + 5c = 10$

Add this to the third equation: $-10a - 6b = 4$

Multiply the first equation by 2: $10a + 8b = -12$

Add these equations: $2b = -8$, so $b = -4$

Substitute into the third equation: $24 - 5c = -6$, so $c = 6$

Substitute the value for c into the second equation: $-2a + 6 = 2$, so $a = 2$