

Solve each equation.

Ex. 5: $6(x-3)+10 = 2(3x-4)$

$$6x - 18 + 10 = 6x - 8$$

$$\cancel{6x} - 8 = \cancel{6x} - 8$$

$$-8 = -8$$

* When the variable disappears:

- ARN
- No Sol.

Identity or Infinitely Many Solutions:

All Real Numbers (ARN)

(variable disappears but the #s are equal)

Ex. 6: $8(4-2x) = 4(3-5x) + 4x$

$$32 - 16x = 12 - 20x + 4x$$

$$32 - \cancel{16x} = 12 - \cancel{16x}$$

$$32 \neq 12$$

Null Set or No Solution:

No Sol.

(variable disappears & numbers are NOT equal)