

$25 \equiv 25 \pmod{10}$ [is the sign of identity]

$$\Rightarrow 5^2 \equiv (-5)^2$$

$$\Rightarrow (5^2)^{\frac{1}{2}} \equiv (-5)^{\frac{1}{2}}$$

$$\Rightarrow 5^{\frac{2}{2}} \equiv (-5)^{\frac{2}{2}}$$

$$\Rightarrow 5^1 \equiv (-5)^1$$

$$\Rightarrow 5^1 \equiv (-5)^1 \Rightarrow 5 \equiv -5 \Rightarrow 10 \equiv 0 \text{ (Adding 5 with both sides)}$$

$$\Rightarrow 1 \equiv 0 \text{ (dividing both sides by 10)}$$

$$\Rightarrow (x-y) \times 1 \equiv (x-y) \times 0 \text{ [Here, } x \text{ and } y \text{ can be anything and } (x-y)$$

$$\Rightarrow x-y \equiv 0$$

$$\Rightarrow x \equiv y$$

[Adding y with both sides] is the result of subtraction of y from x

Therefore, we get :- Yes \equiv NO, Question \equiv Answer