

At $k = -1$, $x = 4(-1)^2 - 1 = 4 - 1 = 3$, is not divisible by 8.

At $k = 0$, $x = 4(0)^2 - 1 = 0 - 1 = -1$, is not divisible by 8

Let us assume that $n = \text{odd}$:

So, when $n = \text{odd}$ i.e., $n = 2k + 1$, where k is an integer,

We get,

$$\Rightarrow x = 2k + 1$$

$$\Rightarrow x = (2k+1)^2 - 1$$

$$\Rightarrow x = 4k^2 + 4k + 1 - 1$$

$$\Rightarrow x = 4k^2 + 4k$$

$$\Rightarrow x = 4k(k+1)$$

At $k = -1$, $x = 4(-1)(-1+1) = 0$ which is divisible by 8.

At $k = 0$, $x = 4(0)(0+1) = 0$ which is divisible by 8.

At $k = 1$, $x = 4(1)(1+1) = 8$ which is divisible by 8.

From the above two observation, we can conclude that, if n is odd, $n^2 - 1$ is divisible by 8.

Hence, option (C) is the correct answer.

4. If the HCF of 65 and 117 is expressible in the form $65m - 117$, then the value of m is

(A) 4 (B) 2

(C) 1 (D) 3

Solution:

(B) 2

Explanation:

Let us find the HCF of 65 and 117,

$$117 = 1 \times 65 + 52$$

$$65 = 1 \times 52 + 13$$

$$52 = 4 \times 13 + 0$$

Hence, we get the HCF of 65 and 117 = 13.

According to the question,

$$65m - 117 = 13$$

$$65m = 117 + 13 = 130$$

$$\therefore m = 130/65 = 2$$

Hence, option (B) is the correct answer.

5. The largest number which divides 70 and 125, leaving remainders 5 and 8, respectively, is

(A) 13 (B) 65

(C) 875 (D) 1750

Solution:

(A) 13

Explanation:

According to the question,

We have to find the largest number which divides 70 and 125, leaving remainders 5 and 8.

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