

Exercise 1.1

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1. If a and b are two odd positive integers such that $a > b$, then prove that one of the two numbers $(a+b)/2$ and $(a-b)/2$ is odd and the other is even.

Solution:

We know that any odd positive integer is of the form $4q+1$ or, $4q+3$ for some whole number q .

Now that it's given $a > b$

So, we can choose $a = 4q+3$ and $b = 4q+1$.

$$\therefore (a+b)/2 = [(4q+3) + (4q+1)]/2$$

$$\Rightarrow (a+b)/2 = (8q+4)/2$$

$$\Rightarrow (a+b)/2 = 4q+2 = 2(2q+1) \text{ which is clearly an even number.}$$

Now, doing $(a-b)/2$

$$\Rightarrow (a-b)/2 = [(4q+3)-(4q+1)]/2$$

$$\Rightarrow (a-b)/2 = (4q+3-4q-1)/2$$

$$\Rightarrow (a-b)/2 = (2)/2$$

$$\Rightarrow (a-b)/2 = 1 \text{ which is an odd number.}$$

Hence, one of the two numbers $(a+b)/2$ and $(a-b)/2$ is odd and the other is even.

2. Prove that the product of two consecutive positive integers is divisible by 2.

Solution:

Let's consider two consecutive positive integers as $(n-1)$ and n .

$$\therefore \text{ Their product} = (n-1)n \\ = n^2 - n$$

And then we know that any positive integer is of the form $2q$ or $2q+1$. (From Euclid's division lemma for $b=2$)

So, when $n = 2q$

We have,

$$\Rightarrow n^2 - n = (2q)^2 - 2q$$

$$\Rightarrow n^2 - n = 4q^2 - 2q$$

$$\Rightarrow n^2 - n = 2(2q^2 - q)$$

Thus, $n^2 - n$ is divisible by 2.

Now, when $n = 2q+1$

We have,

$$\Rightarrow n^2 - n = (2q+1)^2 - (2q+1)$$

$$\Rightarrow n^2 - n = (4q^2 + 4q + 1 - 2q - 1)$$

$$\Rightarrow n^2 - n = (4q^2 + 2q + 2)$$

$$\Rightarrow n^2 - n = 2(2q^2 + q + 1)$$

Thus, $n^2 - n$ is divisible by 2 again.

Hence, the product of two consecutive positive integers is divisible by 2.

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J Elliott

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Secondary School Mathematics: chapt. 15. The real number system. chapt. 16. Area, volume, and computation, 1971

Functions of a Complex Variable James Pierpont, 1914

The Mathematics of Engineering Ralph Eugene Root, 1927

Understand Mathematics, Understand Computing Arnold L. Rosenberg, Denis Trystram, 2020-12-05

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