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Assignment for 10/c

16.04.2020

Q:-1 Use Euclid's division algorithm to find the HCF of 1290 and 228

Q:-2 Show that every positive even integer is of the form $2q$ and that every positive odd integer is of the form $2q+1$, where q is some integer.

Q:-3 Prove that the square of any positive integer is of the form $5m$, $5m+1$, $5m+4$ for some integer m .

Q:-4 The number 525 and 3000 are both divisible only by 3, 5, 15, 25 and 75. What is HCF (525, 3000)? Justify your answer

Q:-5 Find the simplest form of $\frac{561}{748}$

Q:-6 If the HCF of 210 and 55 is expressible in the form $210x + 55y$, then find y .

Q:-7 Find the largest number which divides 853 and 385 leaving remainder 7 in each case.

Q:-8 Check whether 6^n can end with the digit 0 for any natural number n .