Home work no.1

Class : x-d	subject: mathematics
	date:5/4/2010
http://www.thenotes.tk	time: 1 hour m.marks:20

q1)tick the correct option from the given choices :-

a)Euclid's division lemma states that given positive a and b there exist unique integers q and r

satisfy	ving	a=bo	ı+r	where	
Satist	yiiig	a-by		where	

a)r < 0	b)o <r <="b</th"><th>c)o< = r < = b</th><th>d)o<=r<b< th=""></b<></th></r>	c)o< = r < = b	d)o<=r <b< th=""></b<>
,	,	/	,

b)a positive even integer is in the form

a)2 b)2m c)2m+-1 d)2m+1

c)the cube of any positive not in the form of:-

a)9q b)9q+1 c)9q+3 d)9q+8

q4)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 any integer

Q5) show that every integer is in the form 3q or 3q+1or 3q+2 for the same integer q

Q6)show that any positive odd integer is of the form 4q +1 or 4q+3 ,where q is same integer

Q7show that the square of any positive integer is of the form 3m or 3m+1 for same integer

Q8)prove that one of every three consecutive positive integers is divisible by 3

Q9)use euclids division algorithm to find the hcf of following A)135 and 225

B)196 and 38220