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(5.3.2) M	TH 354	9-28-17 nteger, b is a positive
Thun 6: If a 10	, a non negative i	nteger, b is a positive
ged (a,b)	od b, Then	
ged (a, b)	= gcd(b,r)	
<u> </u>		

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(2 2) N	ITH 354		9-28-17	
Thm 6: If a	ITH 354 s a nonnegative odb, then	integer, b	is a gos, like	eger
gcd (a,b)	= 8cg(p'L)			
PP:	-			

Use Euclidean algo to find GeD (190,34)

①
$$190 = 34(5) + 20$$

② $34 = 20(1) + 14 \checkmark$
③ $20 = 14(1) + 6 \checkmark$
⑤ $14 = 6(2) + 2 \checkmark$
⑤ $6 = 2(3) + 0$

GC1) (190,34)=2

Find GCD (128, 77)

$$128 = 77(1) + 51$$

$$77 = 57(1) + 26$$

$$51 = 26(1) + 25$$

$$26 = 25(1) + 1$$

$$15 = 4(5) + 0$$

Gas (128,77)=1

Relatively prime

Find Get (190, 34) =
$$2 = 14 - 2(6)$$
 by (3)
= $14 - 2(20) + 2(14)$ by (3)
= $3(14) - 2(20)$
= $3(34) - 3(20) - 2(20)$
= $3(34) - 3(20) - 2(20)$
= $3(34) - 5(20)$
= $3(34) - 5(20)$
= $3(34) - 5(190) + 25(34)$ by (1)
= $3(34) - 5(190) + 25(34)$
= $28(34) - 5(190)$