- 10, -3,	t, What is trz?
t,==10	tn = t, + (n-1)·d
d = 7 $n = 22$	$t_{22} = -10 + (22 - 1) \cdot 7$
	tzz = -10 + 147
	trz = 137
Example 2: Find	ing the general term,
t,=-10 d=7	tn = t1+ (n-1).d
<u> </u>	$t_n = -10 + (n-1).7$
n = n	m = -10 + (n-1). +
	$t_n = -10 + (n-1) \cdot 7$
n=n	
n=n	$t_n = -10 + 7n(7)$ $t_n = 7n - 17$
n=n	tn = (10) + 7n(7)

Ex 3	Finding 'n'
	170 is the? term of -4,2,8,
	$t_1 = -4$ $t_1 = t_1 + (n-1)d$ $d = 6$ $t_1 = 170$
	tn = 170
	170 = -47 6n-6
	170 = 6n - 10
	+10 +10
	$\frac{180 = 6n}{6} \boxed{h = 30}$
	6

	2, 1.5, 1,		d=-	6.5			
	$2, \frac{3}{2}, 1$, 1,	d =	- <u>l</u> 2			
	Find n	if tn = -14	for	37, 3, 12,			
	tn=-14			d= t3-t2			
	d = -1			or tz - t,			
	t,= 21/5			d=2-21/5			
		tn= t,+ (n-					
	-14.5 = 1.11 + (n-1)(-1/2).5						
$-70 = 11 + (n-1) \cdot (-1)$							
-70=11 -n+1							
-70 = 12- n -12 -12							
-82 = -n							
n = 82							

Three consecutive terms in an arith. seq.

are:
$$5x+2(7x-4)$$
 and $5x+6$

Find the value of x and state the three terms.

 $t_1 + d = t_2$
 $t_2 + d = t_3$

Since $(t_2 - t_1) = d$ and $(t_3 - t_2) = d$

then $(t_2 - t_1) = (t_3 - t_2)$
 $(7x-4) - 1(5x+2) = (10x+6) - 1(7x-4)$
 $(7x-4) - 1(5x+2) = (10x+6) - 1(5x+4)$
 $(7x-4) - 1(5x+4) = (10x+6) - 1(5x+4)$
 $(7x-4) - 1(x+6) = (10x+6) - 1(x+6)$
 $(x+6) - 1(x+6) = (10x+6) - 1(x+6)$
 $(x+6) - 1(x+6$

$$2x + 3y = 6 \implies 2x + 3y = 6$$

$$-3(3x + y = 12) = -9x - 3y = -36$$

$$-7x = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$-7 = -30$$

$$x = -30$$

$$x = -30$$