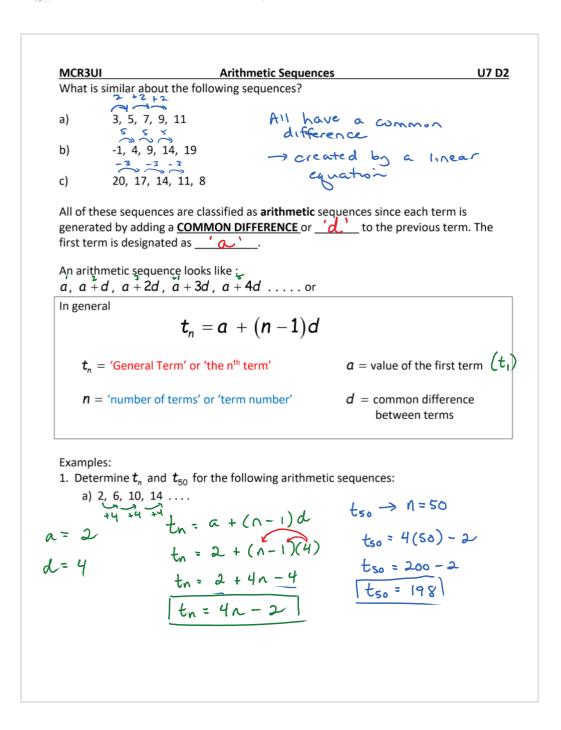
May 21, 2018 12:02 PM

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MCR 3UI - U7 - D2 - Arithmetic Sequences new LESSON ...



b) 
$$\frac{10}{1} \frac{19}{2} \cdot \frac{9}{7} \frac{17}{2} \cdots \rightarrow \frac{20}{2}, \frac{19}{2}, \frac{19}{2}, \frac{19}{2}, \frac{17}{2} \cdots \qquad \text{t consecutive terms to determine } d$$
  
 $a = 10$   $t_n = a + (n-1)d$   $d = \frac{19}{2} - \frac{20}{2}$   
 $d = -\frac{1}{2}$   $t_n = 10 + (n-1)(-\frac{1}{2})$   $d = -\frac{1}{2}$   
 $t_n = 10 - \frac{1}{2}n + \frac{1}{2}$   $t_{50} \Rightarrow \text{ sub } n = 50$   
 $t_n = -\frac{1}{2}n + \frac{21}{2}$   $t_{50} = -\frac{1}{2}(50) + \frac{21}{2}$   
 $t_n = \frac{21}{2} - \frac{1}{2}n$   $t_{50} = -\frac{29}{2}$ 

2. Determine the number of terms in the sequence 3, 7, 11, 15.... 199. h = ?

+4 +4 +4	
a=3 d= 4 t <sub>n</sub> =199	$t_{n} = a + (n - 1)d$ $l99 = 3 + (n - 1)(4)$ $l99 = 3 + 4n - 4$ $l99 = 4n - 1$ $a00 = 4n$
	$\frac{2\omega}{\omega} = 0$

3. Determine 
$$t_{00}$$
 if  $t_{0} = 3$  and  $t_{0} = 22$  for an arithmetic sequence.  
Since  $t_{0} = 4$  if  $t_{0} = 3$  is a  $t_{0} = 4$  if  $(1-1)A$   
 $t_{1} = 3 + (A-1)A$  is  $b = a + (1-1)A$   
 $t_{2} = 3 + (A-1)A$  is  $b = a + (1-1)A$   
 $t_{2} = 3 + (A-1)A$  is  $b = a + (1-1)A$   
 $t_{3} = a + (A-1)A$  is  $b = a + (1-1)A$   
 $t_{4} = 3 + a = 0$  if  $t_{2} = 3$  is  $t_{3} = 0$  if  $t_{4} = 3$   
 $t_{4} = 4$  is  $t_{3} = 0$  if  $t_{4} = 3$  is  $t_{4} = 3$   
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 $t_{5} = 1 + 4 + (n-1)(3)$  is  $t_{50} = t_{50} = 3(50) - 7$   
 $t_{6} = 150 - 7$  if  $t_{6} = 3n - 7$  is  $t_{50} = 150 - 7$   
 $t_{7} = t_{7} = 3n - 7$  is  $t_{2} = 3(3) - 2$  if  $t_{50} = 160$  if  $t_{7}$  is  $t_{7} = 5$  if  $t_{7} = 3$  if  $t_{7} = 3$  is  $t_{7} = 3$  if  $t_{7} = 3$  is  $t_{7} = 3$  if  $t_{7} = 3$  is  $t_{7} = 3$  if  $t_{7}$