

Using the Nth Term of Sequences

$u_n = \frac{6n}{n+7}$	$u_n = \frac{4n+3}{n+1}$	$u_n = \frac{10-3n}{2+n}$	$u_n = \frac{4n^2}{n^2+8}$
(a)	(a)	(a)	(a)
Find the value of u_8 as a fraction in its simplest form. $\frac{16}{5}$	Find the value of u_9 . $\frac{39}{10}$	Find the 6 th term. -1	Find the value of u_5 as a mixed number. $3\frac{1}{33}$
(b)	(b)	(b)	(b)
A term of the sequence is $\frac{11}{3}$ Find the value of n . $n = 11$	A term of the sequence is $\frac{15}{4}$ Find the value of n . $n = 3$	A term of the sequence is $-\frac{7}{5}$ Find the value of n . $n = 8$	Find the term in the sequence closest to 3.8 $\frac{72}{19}$
(c)	(c)	(c)	(c)
Find the difference between the 5 th term and the 9 th term. $\frac{7}{8}$	Find the sum of the 4 th term and the 14 th term. $\frac{116}{15}$	Find $2u_{10} - u_{16}$ $-\frac{11}{9}$	Find the difference between the 8 th term and the 10 th term. $\frac{4}{27}$
(d)	(d)	(d)	(d)
Find the first term in the sequence that is greater than 4 $\frac{45}{11}$	Find the first term in the sequence that is greater than 3.9 $\frac{43}{11}$	Find the first term in the sequence that is negative. $-\frac{1}{3}$	Find the smallest value of n for which $u_n > \frac{7}{2}$ $n = 8$