

START

$u_1 = -1$, $u_2 = 3$ and
 $u_n = 2u_{n-1} + u_{n-2}$
for any $n \geq 3$

$$u_4 = -24$$

u is arithmetic,
 $u_9 = 8$ and $u_7 = 4$

$$u_3 = -1$$

u is arithmetic,
its common
difference
is 3 and $u_7 = 14$

$$u_3 = -27$$

$u_{n+1} = \sqrt{u_n}$
and $u_1 = 16$

$$u_3 = 5$$

u is geometric,
 $u_1 = -3$ and the
common ratio is 2

$$u_4 = \sqrt{2}$$

Each term of the
sequence is the
mean of its two
previous terms

$$u_4 = u_6$$

$u_{n+1} = u_n - n^2$
for any n and
 $u_1 = 4$

$$u_{20} = 53$$

u is the sequence of
all odd numbers

$$u_n = 2n + 1$$

for any $n \geq 0$

u is geometric,
 $u_{10} = 9/4$ and the
common ratio is
 $-2/3$

the common
difference of the
sequence is 2

$$u_n = (-3)^n$$

u is the sequence of
all even numbers

END

$$u_4 = -1$$

$$u_n = 2n$$

for any $n \geq 0$

$$u_{12} = 1$$

$$u_n = n^2 - 5n + 3$$

$$2u_n = u_{n-1} + u_{n-2}$$

u is geometric,
 $u_{10} = 512$ and
 $u_2 = 2$

the common ratio of
the sequence
is ± 2

u is arithmetic, its
common difference
is 4 and $u_0 = -2$

$$u_{20} = 78$$

$$u_n = (n - 5)^2 + 2$$