$$a_1 = 1$$
 $a_2 = 2$
 $a_n = 2a_{n-1} - a_{n-2}$; $h \ge 3$

$$a_4 = 2a_3 - a_2 = 2(2a_2 - a_1) - a_2$$

$$= 3a_2 - 2a_1$$

$$= 6 - 2$$

$$= 4$$

$$Q_n = Q_{n-1} - Q_{n-2} \qquad \longrightarrow \qquad X^2 = 2 \times -1$$

$$Q_n = Q_{n-1} - Q_{n-2} \qquad \longrightarrow \qquad X^2 = 2 \times -1$$

$$Q_n = Q_{n-1} - Q_{n-2} \qquad \longrightarrow \qquad X^2 = 2 \times -1$$

$$Q_n = Q_n - Q_{n-1} - Q_{n-2} \qquad \longrightarrow \qquad X^2 = 2 \times -1$$

$$Q_n = Q_n - Q_n - Q_n - Q_n - Q_n$$

$$Q_n = Q_n - Q_n - Q_n - Q_n$$

$$Q_n = Q_n$$

$$Q_n = Q_n - Q_n$$

$$Q_n = Q_n$$

$$(\times -1)(\times -1) = 0$$

$$Q_n = C_1(1)^n + C_2^n(1)^n;$$
 Ilnu nei 1172 nez Woom C_1, C_2

$$\begin{array}{rcl}
1 & = & C_1 & + & C_2 \\
2 & = & C_1 & + & 2 & C_2
\end{array}$$

$$\begin{array}{rcl}
C_2 & = & 1 & , & C_1 & = & 0
\end{array}$$

$$Q_n = n$$