

```
In[46]:= a[1] = 1;  
a[2] = 1;  
a[3] = -5;
```

```
In[49]:= a[n_] := 6 * a[n - 1] - 11 * a[n - 2] + 6 * a[n - 3];
```

```
In[50]:= Select[Table[a[n], {n, 1, 20}], # > -15 000 000 &]
```

```
Out[50]= {1, 1, -5, -35, -149, -539, -1805, -5795, -18 149,  
-55 979, -171 005, -519 155, -1 569 749, -4 733 819, -14 250 605}
```

```
In[51]:= FindSequenceFunction[{1, 1, -5, -35, -149, -539, -1805, -5795, -18 149, -55 979}, n]
```

```
Out[51]= -2 + 3 × 2n - 3n
```