**3A Arithmetic Sequences Introduction**

1. An arithmetic sequence is generated as follows:

6, 20, 34, 48, 72…

1. Find the nth term
2. Find the first term in the sequence that exceeds 200
3. An arithmetic sequence is generated as follows:

101, 94, 87, 80, 73…

1. Find the nth term
2. Find the first term in the sequence that is negative
3. A sequence is generated by the formula $u\_{n}=a+(n-1)d$ , where $a$ and $b$ are constants to be found.

Given that $u\_{3}=5$ and $u\_{8}=20$, find the values of the constants $a$ and $d$.