

$$= n = 33 + 1 = 34.$$

Exercise 5.2.

Q1. i) $a_n = 28.$

ii) $d = 2$

iii) $a = 40$

iv) $n = 10$

v) $a_n = 3 \cdot 5$

Q2. i) (c)
ii) (b)

Q3. i) $t_2 = 26 - 12 = 14.$

ii) $t_3 = 18 + 2 \times (-5) = 18 - 10 = 8.$

iii) $t_2 = 6\frac{1}{2}, 8.$

iv) $-2, 0, 2, 4.$

v) $53, 38, 23, 8, -7, -22.$

Q4. $a = 3, d = 8 - 3 = 5, a_n = 78$

$$a + (n-1)d = 78$$

$$= 3 + (n-1)5 = 78$$

$$\Rightarrow (n-1)5 = 75$$

$$\Rightarrow (n-1)5 = 75$$