1. a)
$$a_n = 4n+2$$

b)
$$a_n = 3(3^n - 1)/2$$

c)
$$a_n = n^2 + 2n - 3$$

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$$a_n = 4n+2$$
 b) $a_n = 3(3^n-1)/2$ c) $a_n = n^2 + 2n - 3$ d) $a_n = (-1)^n \cdot \frac{3}{2^{n-1}}$

2. a)
$$a_n = (-1) \cdot 5^n + 3 \cdot 2^n$$
 b) $a_n = 6 \cdot 2^n - 2n \cdot 2^n$ c) $a_n = 9 \cdot 2^n - 4 \cdot 3^n$ d) $a_n = 3 - (-5)^n$ e) $a_n = 1$

b)
$$a_n = 6.2^n - 2n.2^n$$

d)
$$a = 3 - (-5)^n$$

e)
$$a_{n} = 1$$

3.
$$k = 10$$
; $a_n = \frac{2}{7}.5^n + \frac{5}{7}.(-2)^n$