

Quiz 10

- 1.
- (a) $a \cdot 7^n$
 - (b) $(a+b n+c n^2) \cdot 7^n$
 - (c) $a+b n$
 - (d) $a n (-2)^n$
 - (e) $n(a+b n) \cdot 3^n$

2. $b_n = a + b n \Rightarrow$

$$a + b n = a + b(n-1) + b(a + b(n-2)) + 12n$$

$\leftarrow n: b = b + 6b + 12$

$\leftarrow 1: a = a - b + 6a - 12b$

$\rightarrow -6b = 12 \Rightarrow b = -2$

$\rightarrow -6a = -b - 12b = -13b = 1$

$$a = \frac{13}{6}b = \frac{13(-2)}{6} = -\frac{13}{3}$$

$$b_n = -\frac{13}{3} - 2n$$