

Math 172 WS 1b – Manipulation of formulas for dynamic & static models

1. If N depends on t , $N(0) = 10$ and $\Delta N = 3$, compute $N(1)$, $N(2)$, \dots , $N(5)$, and the general formula for $N(t)$.

2. If P depends on n , $P(0) = 10$, and $\Delta P = 0.03P(n)$ (or, as we saw in class, $P(n+1) = 1.03P(n)$), compute $P(1)$, $P(2)$, \dots , $P(5)$, and the general formula for $P(n)$.

3. If $B(n) = 3n^2$, compute ΔB .