

MAKO 2 – ZESTAW 6, ODPOWIEDZI

1.
 - a) $a_n = A \cdot \left(\frac{5}{3}\right)^n$
 - b) $a_n = A \cdot 4^n + B \cdot 2^n$
 - c) $a_n = A \cdot 5^n + B$
 - d) $a_n = A \cdot 3^n + B \cdot n \cdot 3^n$
 - e) $a_n = A \cdot (3 + i)^n + B \cdot (3 - i)^n$
 - f) $a_n = A + B \cdot n$

2.
 - a) $a_n = A \cdot \left(\frac{5}{3}\right)^n + \frac{1}{10} \cdot 5^n - \frac{1}{4} \cdot 3^n + 2 \cdot 2^n + 2$
 - b) $a_n = A + \frac{1}{2} \cdot n^2 + \frac{1}{2} \cdot n$
 - c) $a_n = A + \frac{1}{3} \cdot n^3 + \frac{1}{2} \cdot n^2 + \frac{1}{6} \cdot n$
 - d) $a_n = A \cdot 4^n + B \cdot 2^n - 3^n + \frac{1}{3}$
 - e) $a_n = A + B \cdot n + \frac{1}{2} \cdot n^2$
 - f) $a_n = A \cdot 5^n + B - \frac{1}{4} \cdot n$
 - g) $a_n = A \cdot \left(\frac{1+\sqrt{5}}{2}\right)^n + B \cdot \left(\frac{1-\sqrt{5}}{2}\right)^n + 2^n$
 - h) $a_n = A + B \cdot n + \frac{1}{6} \cdot n^3 - \frac{1}{2} \cdot n^2$

3.
 - a) $a_n = \frac{1}{6} \cdot n^3 - \frac{1}{2} \cdot n^2 + \frac{1}{3} \cdot n = \frac{n(n-1)(n-2)}{6}$
 - b) $a_n = (\sqrt{2})^n \cdot \sin\left(\frac{n\pi}{4}\right)$