Antw. 1.

a. $\frac{u_7}{u_4} = r^3 = \frac{210}{1680} = \frac{1}{8}$

de reden is: $r = \frac{1}{2}$

b. $u_4 = b \cdot r^3 = b \cdot (\frac{1}{2})^3 = 1680$

$b = 13440 \rightarrow u_1 = 13440$

Antw. 2.

a. $u_7 = b + 6 \cdot a$

$u_3 = b + 2 \cdot a$

$u_7 - u_3 = 4 \cdot a = 200 \rightarrow a = 50$

Dus $u_n = 50 + u_{n-1}$

b. $u_1 = 100$

Antw. 3.

$u_{13} = 40, \quad u_{37} = 112, \quad n = 25$

$\sum_{n=13}^{37} u_n = \frac{1}{2} \cdot 25 \cdot (40 + 112) = 1900$

Antw. 4.

$u_4 \times u_5 \times u_6 = (2 \cdot r^3) \cdot (2 \cdot r^4) \cdot (2 \cdot r^5) = 8 \cdot r^{12}$

$8 \cdot r^{12} = 4251528$

$r^{12} = 531441 \rightarrow r = (531441)^{\frac{1}{12}} = 3$