

⑦ a) $k=1 \rightarrow 3(1)-4 = -1$
 $k=2 \rightarrow 3(2)-4 = 2$
 $k=3 \rightarrow 3(3)-4 = 5$
 $k=4 \rightarrow 3(4)-4 = 8$
 $-1 + 2 + 5 + 8 = \boxed{14}$

b) $n=2 \rightarrow 2^3 = 8$
 $n=3 \rightarrow 3^3 = 27$
 $n=4 \rightarrow 4^3 = 64$
 $8 + 27 + 64 - 2 = \boxed{97}$

⑧ a) arithmetic $\rightarrow a_n = a_1 + d(n-1)$
 $a_n = 2 + 3(n-1)$

$$\sum_{n=1}^7 (2 + 3(n-1))$$

b) geometric $\rightarrow a_n = a_1 \cdot r^{n-1}$
 $a_n = \frac{1}{2} \left(\frac{1}{2}\right)^{n-1}$

$$\sum_{n=1}^5 \left(\frac{1}{2} \left(\frac{1}{2}\right)^{n-1}\right)$$

c) geometric $\rightarrow a_n = a_1 \cdot r^{n-1}$
 $2560 = 5 \cdot 2^{n-1}$
 $512 = 2^{n-1}$
 $\log_2(512) = n-1$
 $9 = n-1$
 $\underline{n=10}$

$$\sum_{n=1}^{10} (5 \cdot 2^{n-1})$$

⑨ $r = 0.75, h_0 = 20$
a) $h_1 = 20(0.75) = 15$ $\boxed{15, 11.25, 8.4375}$
 $h_2 = 15(0.75) = 11.25$
 $h_3 = 11.25(0.75) = 8.4375$
b) $\boxed{a_0 = 20, a_n = a_{n-1} \cdot 0.75}$
c) $a_n = a_0 \cdot r^n \rightarrow \boxed{a_n = 20(0.75)^n}$
d) $4 = 20(0.75)^n$
 $0.2 = 0.75^n$
 $\log_{0.75}(0.2) = n$
 $n = 5.59 \rightarrow \boxed{6 \text{ bounces}}$

⑩ a) $S_n = \frac{a_1 - a_1 \cdot r^n}{1-r} \rightarrow \boxed{S_n = \frac{33000 - 33000 \cdot 1.04^n}{1-1.04}}$

b) $S_{15} = \frac{33000 - 33000 \cdot 1.04^{15}}{1-1.04} \rightarrow \boxed{S_{15} = \$660,778.39}$

⑪ $P_0 = 19,378,000$
 $r = 1.015$ $\boxed{D}$
 $P_t = P_0 \cdot 1.015$

⑫ arithmetic $\rightarrow \boxed{a_0 = 80}$
 $\boxed{a_n = a_{n-1} + -9}$

⑬ geometric $\rightarrow \boxed{a_1 = 300}$
 $\boxed{a_n = a_{n-1} \cdot 0.87}$

Math Models B E2020 Answers

**Daniel L. Timmons, Daniel T.
Timmons, Catherine W. Johnson
(MAed/Math.), Sonya M. McCook**

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