

APPLIED FINITE MATHEMATICS

3rd ed, 2016

Sekhon/Bloom

Answers to Odd Numbered Homework Problems Section 6.1, 6.2, 6.3, 6.4, 6.5

6.1: 1) $I = \$600$ 3) $A = \$3048$ 5) $P = \$1800$ 7) $A = \$872$
9) $r = .11$ 11% 11) $\$1760$ 13) $\$7440$ 15) $\$279070$

6.2 1) $A = \$11542.52$ 3) $A = \$5647.77$
5) B pays more $r_{EFF} = .0513$ at Bank A. $r_{EFF} = .0523$ at Bank B
7) $A = \$12702.00$ 9) $t = 8.66$ years 11) $P = \$151,257.12$
13) $r_{EFF} = .07397$ 7.397% 15) 17.38 million people

6.3 1) $A = \$13954.01$ 3) $A = \$15904.47$ 5) $m = \$20578.36/\text{quarter}$
7) $m = \$6438.02/\text{quarter}$
9) $\$25000$ paid today is better: $A = \$38002.64$
for $\$400$ paid monthly $A = \$35872.42$
11) $A = 112552.26$

6.4 1) $P = \$1,177,953.55$ 3) $P = \$12043.34$ 5) $m = \$2149.21/\text{month}$
7) $m = \$768.76/\text{month}$ 9) $P = \$37907.87$ so leasing is better
11) $m = \$4704.71$

6.5 1) $m = \$1123.06$ 3) $P = \$171907.63$
5) $P = \$5579.64$ 7) $P = \$11680.01$
9) $m = \$333.85/\text{month}$ 10) $m = \$2177.77/\text{month}$
11) $A = \$305421.70$ 12) $m = \$2479.37$
13) $P = P_1 + P_2 = 447.70 + 471.48 = \919.18
15) $P = P_1 + P_2 = 435.48 + 806.45 = \1241.94
17) a) $A = \$30535.40$ b) $m = \$720.63/\text{month}$