

Section 1.2 Extra Practice

1, 3, 5, 6* on exam, 7, 8

BLM 1–5 Section 1.2 Extra Practice

1. a) -936 b) 232.5 c) 252.5 or $252\frac{1}{2}$
2. a) 378 b) 0 c) $400x$
3. a) 15 b) 25 c) 21
4. a) $t_{12} = -41, S_{12} = -228$ b) $t_{12} = \frac{47}{5}, S_{12} = 60$
5. a) 413 b) $95\sqrt{3}$
6. $7007\frac{1}{2}$ 7. 2850 8. $t_1 = 8, t_9 = 40$
9. a) $S_1 = 7, S_2 = 20, S_3 = 39, S_4 = 64, S_5 = 95$
 b) $t_1 = 7, t_2 = 13, t_3 = 19, t_4 = 25, t_5 = 31$
 c) $S_5 = 3(5)^2 + 4(5) = 95$
10. $6 + 11 + 16 + \dots + t_{20} = \1070 . Therefore, the arithmetic series method pays more money.