

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. $71\ 071$ 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.