SOLUTIONS: PROBLEM SET 30 FROM SECTION 12.4

2.

    (a) $[10; \overline{20}]$

    (b) $[10; \overline{6, 1, 2, 1, 1, 9, 1, 1, 2, 1, 6, 20}]$

    (c) $[10; \overline{2, 1, 9, 1, 2, 20}]$

    (d) $[14; \overline{5, 1, 1, 1, 2, 1, 8, 1, 2, 1, 1, 1, 5, 28}]$

    (e) $[14; \overline{4, 28}]$

    (f) $[14; \overline{2, 5, 3, 2, 3, 5, 2, 28}]$

4.

    (a) $[1; \overline{2, 1}]$

    (b) $[6; \overline{1, 2, 3}]$

    (c) $[1; 1, 1, \overline{1, 8, 1, 18}]$

6.

    (a) $\frac{5+\sqrt{13}}{6}$

    (b) $\frac{-1+\sqrt{15}}{2}$

    (c) $\frac{4+\sqrt{37}}{7}$