

4.4 – 4.7 Book Review Answers

p. 188; #12-15

AND

p.227, #19-24

12. $(2m + 3)(4m^2 - 6m + 9)$

13. $(z - 2)(z + 2)(z + 1)$

14. $(7b^2 - 8)(7b^2 + 8)$

15.
$$\begin{array}{r|rrrr} -5 & 1 & -2 & -23 & 60 \\ & & -5 & 35 & -60 \\ \hline & 1 & -7 & 12 & 0 \end{array}$$
$$f(x) = (x + 5)(x - 3)(x - 4)$$

19. $8(2x - 1)(4x^2 + 2x + 1)$

20. $2z(z^2 - 5)(z - 1)(z + 1)$

21. $(a - 2)(a + 2)(2a - 7)$

22.
$$\begin{array}{r|rrrrr} -2 & 1 & 2 & 0 & -27 & -54 \\ & & -2 & 0 & 0 & 54 \\ \hline & 1 & 0 & 0 & -27 & 0 \end{array}$$
$$f(x) = (x + 2)(x - 3)(x^2 + 3x + 9)$$

23. $x = -4, x = -2, \text{ and } x = 3$

24. $x = -4, x = -3, \text{ and } x = 2$
