

Please let me know if you find any typos or errors in the answers below.

Section 4.1:

6, -8 , $288/125$

8, -1 , $1/125$

14, $x^{1/2}$, $x^{-1/2}$

16, $-6t^{-7/3}$

18, $x^6y^{-9}z^3$

22, -3

Section 4.2:

4, $1/2$

6, 9

8, $19/6$

12, $6 \log_3 2 - 3 \log_3 5$

16, $2 \ln x + \frac{1}{2} \ln(4 - x) + \frac{1}{2} \ln(4 + x)$

18, $\ln(1 + x) - 2 \ln x$

24, $(\ln 3 + \ln 17)/(2 \ln 3)$

26, $(5 \ln 2)/6$

30, e^2

38, $-3(\ln 2 + \ln 5)$

40, $\ln 2 + \ln 7$

44, $(\ln 2)/0.07$

46, $(\ln 3)/r$

52, $(\ln 2)/0.003$