Logarithms worksheet answers

(1) 2

(2) 2

(3) 0

(4) 3

(5) ½

(6) 1

(7) 1/3

(8) 0

(9) 1/3

(10) 1

(11) 3 (because $\log_b b^3 = 3\log_b b$)

(12) $\log x + \log y$

(13) $\log x - \log y - \log z$

(14) $\log y - 2\log z$

(15) $2\log x + 3\log y - \log z$

(16) $\dfrac{1}{2}\log y - \dfrac{1}{2}\log z$

(17) $n\log x + m\log y$

(18) $\log \dfrac{x^n}{y}$

(19) $\log \dfrac{xy^2}{z^3}$

(20) $\ln x - \ln(x+1)$

(21) $\ln x + \ln(x+4)$

(22) $1 + \ln x$

(23) $2 + \ln x + \ln(x-e)$

(24) $\ln \dfrac{x^2}{4}$

(25) $\ln(e^2 x)$

(26) $\ln \dfrac{x^2}{y^3}$

(27) $\log x + 2\log y + 0.5\log\pi$

(28) $\log((x^3 y^3)/\pi^4)$