

Chapter 1

1.1

Exercise 1A

- | | | | | | | | | |
|---|---|----------------------|---|-----------------|---|---------------|---|-----------------|
| 1 | a | x^7 | b | $6x^5$ | c | $2p^2$ | d | $3x^{-2}$ |
| | e | k^5 | f | y^{10} | g | $5x^8$ | h | p^2 |
| | i | $2a^3$ | j | $2p^{-7}$ | k | $6a^{-9}$ | l | $3a^2b^{-2}$ |
| | m | $27x^8$ | n | $24x^{13}$ | o | $63a^{12}$ | p | $32y^6$ |
| | q | $4a^6$ | r | $6a^{12}$ | | | | |
| 2 | a | x^5 | b | x^{-2} | c | x^4 | | |
| | d | x^3 | e | x^5 | f | $12x^0 = 12$ | | |
| | g | $3x^3$ | h | $5x$ | i | $6x^{-1}$ | | |
| 3 | a | ± 5 | b | ± 9 | c | 3 | d | $\frac{1}{16}$ |
| | e | $\pm \frac{1}{4}$ | f | $\frac{1}{125}$ | g | 1 | h | ± 6 |
| | i | $\pm \frac{125}{64}$ | j | $\frac{9}{4}$ | k | $\frac{1}{8}$ | l | $\frac{64}{49}$ |

1.2

Exercise 1B

- | | | | | | |
|----|------------------------|----|------------------------|----|----------------------|
| 1 | $2\sqrt{7}$ | 2 | $6\sqrt{2}$ | 3 | $5\sqrt{2}$ |
| 4 | $4\sqrt{2}$ | 5 | $3\sqrt{10}$ | 6 | $\sqrt{3}$ |
| 7 | $\sqrt{3}$ | 8 | $6\sqrt{5}$ | 9 | $7\sqrt{2}$ |
| 10 | $12\sqrt{7}$ | 11 | $-3\sqrt{7}$ | 12 | $9\sqrt{5}$ |
| 13 | $23\sqrt{5}$ | 14 | 2 | 15 | $19\sqrt{3}$ |
| 16 | $\frac{\sqrt{5}}{5}$ | 17 | $\frac{\sqrt{11}}{11}$ | 18 | $\frac{\sqrt{2}}{2}$ |
| 19 | $\frac{\sqrt{5}}{5}$ | 20 | $\frac{1}{2}$ | 21 | $\frac{1}{4}$ |
| 22 | $\frac{\sqrt{13}}{13}$ | 23 | $\frac{1}{3}$ | | |

1.3

Exercise 1C

- | | | | | |
|---|---|-----------------------------|---|--|
| 1 | a | $\log_4 256 = 4$ | b | $\log_3 \left(\frac{1}{9}\right) = -2$ |
| | c | $\log_{10} 1\,000\,000 = 6$ | d | $\log_{11} 11 = 1$ |
| 2 | a | $2^4 = 16$ | b | $5^2 = 25$ |
| | c | $9^3 = 3$ | d | $5^{-1} = 0.2$ |
| | e | $10^5 = 100\,000$ | | |
| 3 | a | 3 | b | 2 |
| | c | 6 | d | $\frac{1}{2}$ |
| | e | 7 | f | 10 |
| | g | -1 | h | 10 |

- | | | | | | | | | |
|---|---|------|---|-------|---|--------|---|--------|
| 4 | a | 625 | b | 9 | c | 7 | d | 2 |
| 5 | a | 1.30 | b | 0.602 | c | 3.85 | d | -0.105 |
| 6 | a | 1.04 | b | 1.55 | c | -0.523 | d | 3.00 |

1.4

Exercise 1D

- | | | | | | | |
|---|---|--|---|--------------------------|---|-------------|
| 1 | a | $\log_2 21$ | b | $\log_2 9$ | c | $\log_5 80$ |
| | d | $\log_6 \left(\frac{58}{21}\right)$ | e | $\log_{10} 120$ | | |
| 2 | a | $\log_2 8 = 3$ | b | $\log_6 36 = 2$ | | |
| | c | $\log_{12} 144 = 2$ | d | $\log_8 2 = \frac{1}{3}$ | | |
| | e | $\log_{10} 10 = 1$ | | | | |
| 3 | a | $3 \log_2 x + 4 \log_2 y + \log_2 z$ | | | | |
| | b | $5 \log_2 x - 2 \log_2 y$ | | | | |
| | c | $2 + 2 \log_2 x$ | | | | |
| | d | $\log_2 x + \frac{1}{2} \log_2 y - \log_2 z$ | | | | |
| | e | $\frac{1}{2} + \frac{1}{2} \log_2$ | | | | |

1.5

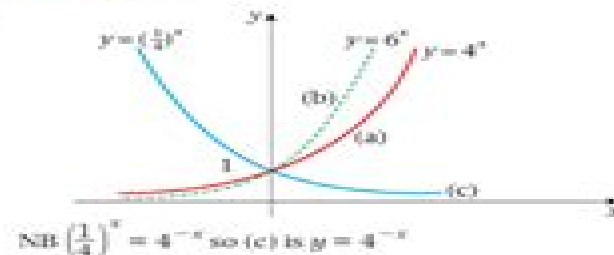
Exercise 1E

- | | | | | | | |
|---|---|--------------------|---|-----------------------------|---|-------|
| 1 | a | 2.460 | b | 3.465 | c | 4.248 |
| | d | 0.458 | e | 0.774 | | |
| 2 | a | 1.27 | b | 2.09 | c | 0.721 |
| | a | $\frac{1}{2}, 512$ | e | $\frac{1}{16}, \frac{1}{4}$ | | |
| 3 | a | 6.23 | b | 2.10 | c | 0.431 |
| | d | 1.66 | | | | |
| 4 | a | $\frac{1}{2}, 512$ | b | $\frac{1}{16}, \frac{1}{4}$ | c | 2.52 |

1.6

Exercise 1F

1



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