

## 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 | $\pm 5$              | b | $\pm 9$         | c | 3             | d | $\frac{1}{16}$  |
|   | e | $\pm \frac{1}{4}$    | f | $\frac{1}{125}$ | g | 1             | h | $\pm 6$         |
|   | 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

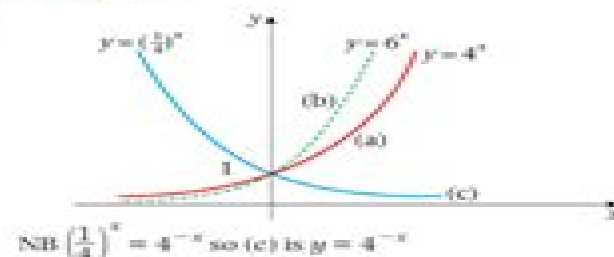
#### Exercise 1E

- |   |   |                    |   |                             |   |       |
|---|---|--------------------|---|-----------------------------|---|-------|
| 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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**R Barnett**



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