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	$24x^{11}$	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	$3x^{\frac{1}{2}}$	h	$5x$	i	$6x^{-1}$		
3	a	± 5	b	± 9	c	3	d	$\frac{1}{16}$
	e	$\pm\frac{1}{3}$	f	$\frac{1}{125}$	g	1	h	± 6
	i	$\pm\frac{125}{64}$	j	$\frac{9}{4}$	k	$\frac{5}{6}$	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	$\log_3(\frac{1}{9}) = -2$		
	c	$\log_{10} 1\,000\,000 = 6$			d	$\log_{11} 11 = 1$		
2	a	$2^4 = 16$			b	$5^2 = 25$		
	c	$9^{\frac{1}{2}} = 3$			d	$5^{-1} = 0.2$		
	e	$10^5 = 100\,000$						
3	a	3	b	2	c	7	d	1
	e	6	f	$\frac{1}{2}$	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	$\log_6(\frac{68}{81})$	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	$3\log_a x + 4\log_a y + \log_a z$				
	b	$5\log_a x - 2\log_a y$				
	c	$2 + 2\log_a x$				
	d	$\log_a x + \frac{1}{2}\log_a y - \log_a z$				
	e	$\frac{1}{2} + \frac{1}{2}\log_a$				

1.5

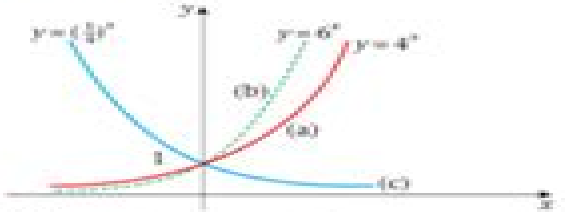
Exercise 1E

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



NB $\left(\frac{1}{4}\right)^x = 4^{-x}$ so (c) is $y = 4^{-x}$

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