

<b>Section 1.1</b>	
2. a) negative	b) negative
c) positive	d) positive
8. a) $b > 0$	b) $s \leq 0$
c) $w \geq -4$	d) $\frac{1}{5} < c < \frac{1}{3}$
e) $p \leq -2$	f) $-m \geq -2$
g) $\frac{r}{s} \geq \frac{1}{5}$	h) $\frac{1}{f} \leq 14$
i) $ x  < 4$	
12. a) 4	b) $\frac{5}{2}$
	c) 10

<b>Section 1.2</b>	
4. $\frac{1}{2}$	6. $\frac{5}{1}$
12. $-12x^2$	
20. $\frac{-2x^6z^5}{y}$	24. $-4x^{12}y^7$
8. $\frac{243}{1}$	36. $4r^{\frac{5}{6}}$
54. a) $4 + x\sqrt{x}$	b) $(4+x)\sqrt[4]{4+x}$
58. $-5$	
62. $\frac{1}{7}\sqrt{7}$	
64. $\frac{4a^4}{b}$	
68. $\frac{\sqrt{3xy}}{3x^2y}$	
78. $5x^2y^5\sqrt{2}$	
86. $\sqrt{a^2+1}$	$a+1$

<b>Section 1.3</b>	
6. $6x^2 + 19x - 36$	
12. $7x^4 - 11x^3 + 4x^2 + 42x - 24$	
18. $2a^2b - 3a + b^2$	
22. $25x^2 - 16y^2$	
38. $x^3 + 9x^2y + 27xy^2 + 27y^3$	
40. $27x^3 - 108x^2y + 144xy^2 - 64y^3$	
46. $2u(2u - v)$	
54. $(7x - 4)(x + 2)$	
62. $(3x + 4)^2$	
68. $(9r + 4t)(9r - 4t)$	
70. $(3y^2 + 11x)(3y^2 - 11x)$	
72. $x(x + 5)(x - 5)$	
76. $4(4x + 3y)(4x - 3y)$	
92. $(x^4 + 4)(x^2 + 2)(x^2 - 2)$	
100. $x(2x + 1)^2$	

<b>Section 1.4</b>	
4.	$\frac{23}{216}$
10.	$\frac{5-r}{r^3}$
20.	$\frac{3x^2 + 2x + 5}{x^3}$
22.	$\frac{5t-6}{t-3}$
26.	$\frac{5x+4}{2x+3}$
34.	$\frac{x(3x+5)}{(x-2)(x+2)^2}$
46.	$\frac{-1}{x(x+h)}$
50.	$\frac{t-8\sqrt{t}+16}{t-16}$