

Answers

Essential Skills 21	
1	$\frac{x+3}{3}$
2	$\frac{x-3}{2}$
3	$\frac{x+2}{x}$
4	$\frac{x-7}{x+5}$
5	$\frac{2x+1}{x+3}$
6	$\frac{1}{x+5}$
7	$\frac{2(x+5)}{4x+1}$
8	$\frac{2x+1}{x-1}$
9	$\frac{2x+1}{3x-1}$
10	$\frac{x-7}{2x-5}$
AQ	(a) $(x+6)(x-9)$ (b) $\frac{x-9}{3x-1}$

Essential Skills 23	
1	£200
2	150g
3	£12500
4	€7500
5	400ml
6	£80
7	\$99
8	£35000
9	£80
10	€6.80
AQ	€1.32

Essential Skills 22	
1	$\begin{pmatrix} 2 \\ -2 \end{pmatrix}$
2	$\begin{pmatrix} 1 \\ 2 \\ 7 \end{pmatrix}$
3	$\begin{pmatrix} 6 \\ -4 \\ 12 \end{pmatrix}$
4	$\begin{pmatrix} 3 \\ -4 \\ 31 \end{pmatrix}$
5	$\begin{pmatrix} 3 \\ 1 \\ 7 \end{pmatrix}$
6	$\begin{pmatrix} 3 \\ 4 \\ 4 \end{pmatrix}$
7	5
8	9
9	$\sqrt{14}$
10	$\sqrt{57}$
AQ	(1) ± 5 (2) $7\sqrt{2}$

Essential Skills 24	
1	x^8
2	x
3	$3x^{11}$
4	$10x^2$
5	$2x^4$
6	$\frac{6}{7}$
7	$\frac{2x^{10}}{3}$
8	$\frac{3}{x^3}$
9	$3x^3y^2$
10	$\frac{2y}{x^2}$
AQ	(a) $\frac{2x^2}{3y}$ (b) 3