Leave
blank

3. Simplify

$$\frac{5-\sqrt{3}}{2+\sqrt{3}}$$

giving your answer in the form $a + b\sqrt{3}$, where a and b are integers.

(4)

Q3

(Total 4 marks)

3. Expand and simplify $(\sqrt{7} + 2)(\sqrt{7} - 2)$.	(2)
	(Total 2 marks)



(a) $(3\sqrt{7})^2$		
(b) $(8+\sqrt{5})(2-\sqrt{5})$	Simplify	
(b) $(8+\sqrt{5})(2-\sqrt{5})$	(a) $(3\sqrt{7})^2$	
(b) $(8+\sqrt{5})(2-\sqrt{5})$ (3)		(1)
	(b) $(8+\sqrt{5})(2-\sqrt{5})$	
		(3)

(Total 4 marks)

Q1

2. (a) Expand and simplify $(7 + \sqrt{5})(3 - \sqrt{5})$.

(3)

(b) Express $\frac{7+\sqrt{5}}{3+\sqrt{5}}$ in the form $a+b\sqrt{5}$, where a and b are integers.

(3)

(Total 6 marks)

Q2

in the form $k\sqrt{x}$, where k and x are integers.	
in the form k vx, where k and x are integers.	(2)

(Total 2 marks)