

## Manipulating Surds

(a)	(b)	(c)	(d)
Simplify $2\sqrt{5} + 3\sqrt{5}$  $5\sqrt{5}$	Simplify $6\sqrt{5} + 5\sqrt{5}$  $11\sqrt{5}$	Simplify $2\sqrt{5} - 3\sqrt{5}$  $-\sqrt{5}$	Simplify $7\sqrt{3} - 3\sqrt{3}$  $4\sqrt{3}$
(e)	(f)	(g)	(h)
Simplify $2\sqrt{3} + 3\sqrt{2}$  $2\sqrt{3} + 3\sqrt{2}$	Simplify $7\sqrt{10} + 3\sqrt{10} - \sqrt{10}$  $9\sqrt{10}$	Expand $3(6 + \sqrt{5})$  $18 + 3\sqrt{5}$	Expand $\sqrt{2}(7 - \sqrt{3})$  $7\sqrt{2} - \sqrt{6}$
(i)	(j)	(k)	(l)
Expand $5\sqrt{2}(3 - \sqrt{7})$  $15\sqrt{2} - 5\sqrt{14}$	Expand and simplify $(3 + \sqrt{2})(6 + \sqrt{2})$  $20 + 9\sqrt{2}$	Expand and simplify $(3 + \sqrt{7})(5 - \sqrt{7})$  $8 + 2\sqrt{7}$	Expand and simplify $(4 + 3\sqrt{5})(2 - \sqrt{5})$  $-7 + 2\sqrt{5}$