

# Expanding Brackets with Surds

Increasingly  
Difficult  
Exercises

- a)  $\sqrt{2}(3 + \sqrt{5})$       b)  $\sqrt{3}(2 - \sqrt{2})$       c)  $\sqrt{2}(3\sqrt{2} + 5)$
- d)  $\sqrt{2}(4\sqrt{2} - 2\sqrt{3})$       e)  $2\sqrt{5}(\sqrt{5} + 3\sqrt{2})$       f)  $3\sqrt{2}(2\sqrt{2} - 3\sqrt{5} + 5\sqrt{3})$
- g)  $(3\sqrt{2} + 1)(2 - \sqrt{3})$       h)  $(2 - 4\sqrt{3})(1 + 2\sqrt{3})$       i)  $(5 + \sqrt{3})(\sqrt{6} - 2)$
- j)  $(2\sqrt{2} - 5)(1 + 4\sqrt{2})$       k)  $(3 + \sqrt{2})(3 - \sqrt{2})$       l)  $(2\sqrt{5} - 3\sqrt{2})(2\sqrt{5} + 3\sqrt{2})$

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- j)  $(2\sqrt{2} - 5)(1 + 4\sqrt{2})$       k)  $(3 + \sqrt{2})(3 - \sqrt{2})$       l)  $(2\sqrt{5} - 3\sqrt{2})(2\sqrt{5} + 3\sqrt{2})$