**Manipulating Surds**

Simplify

(a) (b)

(c) (d)

(e) (f)

(g)

(h)

Expand and simplify where possible

(a) (b)

(c) (d)

(e) (f)

(g) (h)

(i) (j)

Expand and simplify where possible

(a)

(b)

(c)

(d)

(e)

(f)

Calculate the areas of these shapes, giving answers in their simplest form

(a) A square with side length cm

(b) A rectangle width length cm and width cm

(c) A triangle with base cm and height cm

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