**Using the Factor Theorem**

(a) Show that is a factor of .

(b) Show that is a factor of .

(c) Show that is a factor of .

(d) Show that is a factor of .

Factorise fully:

(a)

(b)

(c)

Solve:

(a)

(b)

(c)

and are both factors of the cubic . Find the values of and .

and are both factors of the cubic . Find the third factor of this cubic.

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