**Rationalising the Denominator Proof**

(a) Show that can be written in the form , where and are integers to be found.

(b) Show that can be written in the form , where and are integers to be found.

(c) Show that can be written in the form , where and are integers to be found.

(d) Show that can be written in the form , where and are integers to be found.

(e) Show that can be written in the form , where and are integers to be found.

(f) Show that can be written in the form , where and are integers to be found.

(g) Given that

find the values of and .

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