**Simultaneous surds equation**

**1.** Solve .

For , from (1),

From (2),

Squaring we get

From (3),

,

.

Checking with (1) and (2), we have .

Similarly, if , .

Hence, .

**2.** Solve .

From (1),

When (rejected)

When (satisfies (1) and (2))

Solution : .

Should also check : . (Result is the same.)

**Yue Kwok Choy**

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