

Dr Oliver Mathematics
Worked Examples
Quadratic Equation 2

From: CCEA 2019 January M4 Paper 1 (Calculator)

1. **A method of trial and improvement will not be accepted.** (8)

A is a fraction whose denominator is 3 more than its numerator.

A new fraction B is produced.

4 is added to the numerator of A to give the numerator of B .

4 is added to the denominator of A to give the denominator of B .

Fraction B is now larger than fraction A by $\frac{1}{8}$.

By setting up and solving a suitable equation find the original fraction A .