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(b) (ii) Hence, solve the equation

$$2 \times {}^n C_4 = 51 \times {}^n C_2$$

[2 marks]

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## 3. June/2019/Paper\_3/No.2

Find the value of  $\frac{100!}{98! \times 3!}$

Circle your answer.

[1 mark]

$$\frac{50}{147}$$

1650

3300

161700

## 4. June/2019/Paper\_3/No.3

Given  $u_1 = 1$ , determine which one of the formulae below defines an increasing sequence for  $n \geq 1$

Circle your answer.

[1 mark]

$$u_{n+1} = 1 + \frac{1}{u_n}$$

$$u_n = 2 - 0.9^{n-1}$$

$$u_{n+1} = -1 + 0.5u_n$$

$$u_n = 0.9^{n-1}$$