

## Simultaneous equations – 2020 O Level Additional Math

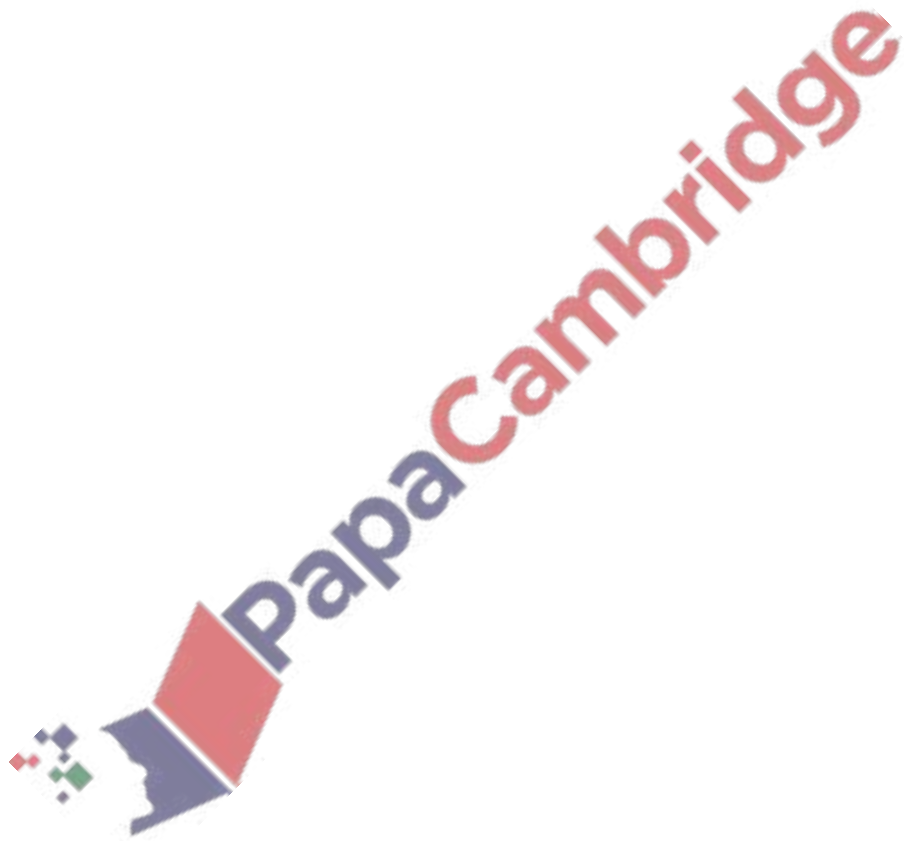
1. Nov/2020/Paper\_23/No.2

Solve the simultaneous equations.

$$x^2 + 3xy = 4$$

$$2x + 5y = 4$$

[5]



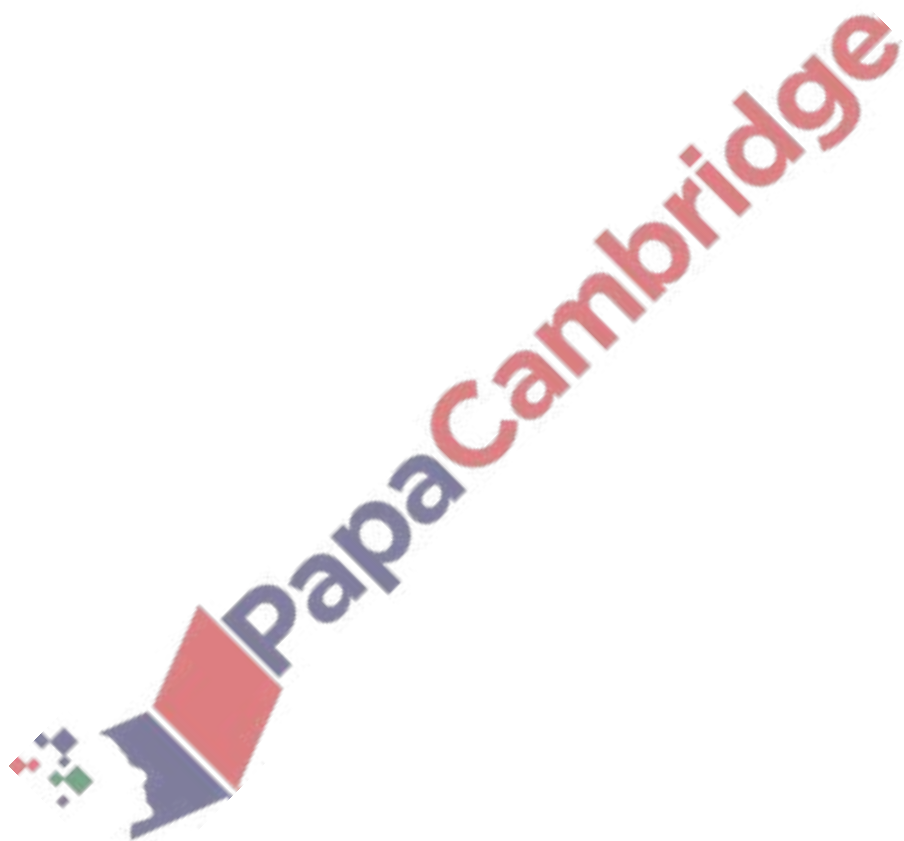
2. Nov/2020/Paper\_23/No.5

Solve the following simultaneous equations.

$$3^x \times 9^{y-1} = 243$$

$$8 \times 2^{y-\frac{1}{2}} = \frac{2^{2x+1}}{4\sqrt{2}}$$

[5]



3. June/2020/Paper\_21/No.7

(a) Solve the simultaneous equations

$$\begin{aligned}10^{x+2y} &= 5, \\10^{3x+4y} &= 50,\end{aligned}$$

giving  $x$  and  $y$  in exact simplified form.

[4]

(b) Solve  $2x^{\frac{2}{3}} - x^{\frac{1}{3}} - 10 = 0$ .

[3]

