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

$$10^{x+2y} = 5,$$
$$10^{3x+4y} = 50,$$

giving x and y in exact simplified form. [4]

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