1. Nov/2020/Paper_11/No.3

(a) Solve the equation $9-5x=2x-12$.

$x =$ ..... [2]

(b) Simplify $16+2y-3(3-y)$.

..... [2]

2. Nov/2020/Paper_12/No.10

Solve the simultaneous equations.

$$3x - 2y = 12$$
$$4x + y = 5$$

$x =$ .....

$y =$ ..... [3]

3. Nov/2020/Paper_21/No.6

(a) Solve the inequality $6x - 7 > 5 - 2x$.

..... [2]

(b) Chen buys 4 notebooks and 3 pens for \$17.50 .
Liu buys 2 notebooks and 5 pens for \$14.

Form a pair of simultaneous equations and solve them to find the cost of a notebook and the cost of a pen.
Show your working.

Notebook \$ .....

Pen \$ ..... [4]

(c) **(i)** Show that $\frac{x}{x+2} - \frac{3}{x-5} = 4$ can be rearranged to $3x^2 - 4x - 34 = 0$.

[3]

(ii) Solve the equation $3x^2 - 4x - 34 = 0$.
Show your working and give your answers correct to 2 decimal places.

$x =$ ..... or $x =$ ..... [3]

4. June/2020/Paper_11/No.16

(a) Solve the equation $5-2x=12$.

$x =$ ..... [2]

(b) Find the integers that satisfy $-5 \leqslant 3x \leqslant 6$.

..... [2]

5. June/2020/Paper_12/No.11

(a) $c = \dfrac{7-a}{b}$

Find c when $a = -4$ and $b = 2$.

$c =$ ..... [1]

(b) $y = 5^x + 1$

Find y when $x = -2$.

$y =$ ..... [1]

6. June/2020/Paper_21/No.3b,3c

(b) Solve these simultaneous equations.
Show your working.

$$10x + 7y = -3$$
$$5x - y = 3$$

$x =$ .....

$y =$ ..... [3]

(c) Solve the equation $5x^2 + 3x - 1 = 0$.
Show all your working and give your answers correct to 2 decimal places.

$x =$ ..... or $x =$ ..... [3]

7. June/2020/Paper_22/No.5

(a) Solve these simultaneous equations.
Show your working.

$$2x - 4y = 11$$
$$3x + 3y = -6$$

$x =$ .....

$y =$ ..... [4]

(b) Solve the equation $2x^2 = 3(8 - x)$.
Show all your working and give your answers correct to 2 decimal places.

$x =$ ..... or $x =$ ..... [4]

(c) h is inversely proportional to the cube of g.
$h = 4.5$ when $g = 2$.

(i) Find the formula for h in terms of g.

$h =$ ..... [2]

(ii) Find the value of g when $h = \frac{32}{3}$.

$g =$ ..... [2]