1. June/2021/Paper_11/No.23

(a) $a = \dfrac{b^2 + c}{d}$

(i) Find a when $b = 4 \times 10^2$, $c = 6 \times 10^3$ and $d = 2 \times 10^2$.
Write your answer in standard form.

$a =$ ..... [3]

(ii) Rearrange the formula to make b the subject.

$b =$ ..... [3]

(b) $m \times 10^4 + m \times 10^2 = 36\,360$

Work out $m \times 10^4 - m \times 10^2$.

..... [2]

2. June/2021/Paper_12/No.13

(a) Write 0.000 053 in standard form.

..... [1]

(b) Evaluate $(1.5 \times 10^{14}) \times (8 \times 10^{6})$.
Give your answer in standard form.

..... [2]