

Q1. (2018)

13

Show that, for $x \neq -1$ $\frac{8x^2 - 8}{4x + 4}$ simplifies to the form $ax + b$ where a and b are integers.

[3 marks]

Q2. (2020)

19

 a and b are positive values.Show that $\frac{7a + 2b - 3a}{8a + 6b + 2a - b}$ always simplifies to the same value.

[3 marks]

Q3. (2022)

25

 $f(x) = 2x + 5$ Show that $3f(x) - 12f^{-1}(x)$ simplifies to an integer.

[4 marks]