## Question 1

(a) Simplify $(6 x-3)(2 x-1)$.

(b) Simplify $\left(3 x^{3}-2 x^{2}-3 x+2\right) \div(x-1)$.

(c) (i) Solve the simultaneous equations:

$$
\begin{aligned}
& 2 x-3 y=18 \\
& 5 x+9 y=-10 .
\end{aligned}
$$

(ii) Verify your answer to (c)(i).
$\qquad$

## Question 2

(a) Express in its simplest form: $\frac{5-x}{5}+\frac{x-4}{4}$.
(b) Solve for $x: 3 x^{2}+11 x=4$.
(c) Divide $2 x^{3}+x^{2}-13 x+6$ by $x+3$.


