**Answer all questions in the spaces provided. All work must be shown to obtain full marks.**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Q1. Express in its simplest form (i.e. as a single fraction).

$$\frac{5}{x-3}-\frac{3}{x-2}$$

Q2. Graph on the number line the solution set of:

4 – *x* ≥ 2*x* – 5, $x\in N$

Q3. Solve the equation $\frac{x-1}{3}-\frac{5x+2}{4}=1$

Q4. Divide $6x^{3}-13x^{2}+27x-14$ by 3*x* – 2.

Q5. Remove the brackets and simplify: $\left(3x-2\right)(x-4)$

Q6. Solve the equation: $2t-\left(3t+4\right)= -5\left(2t+4\right)-2$