SPTA
N5 Homework
Alg. Fractions (B)

Show all working – <u>NO</u> calculator required.

<u>**Marks**</u>

1. Simplify $\dfrac{x^2+5x}{x^2+x-20}$

(3)

2. Express, $\dfrac{7}{x+4} - \dfrac{3}{x}$ $\ x \neq 0,\ x \neq$ -5, as a single fraction in its simplest form.

(2)

3. Express, $\dfrac{5a}{4b} \div \dfrac{1}{2b^2}$ $\ b \neq 0,$ in its simplest form.

(3)

4. Express, $\dfrac{5}{x-3} + \dfrac{3}{x+2}$ $\ x \neq 3,\ x \neq$ -2, as a single fraction in its simplest form.

(3)

5. Simplify $\dfrac{x^2-25}{2x^2+8x-10}$

(3)

6. Express, $\dfrac{p}{p^2-4} \div \dfrac{3}{p-2}$ $\ p \neq 2,\ p \neq$ -2 in its simplest form.

(3)

7. Express, $\dfrac{4}{x-1} - \dfrac{3}{x+3}$ $\ x \neq 1,\ x \neq$ -3, as a single fraction in its simplest form.

(3)

<u>**Total Marks: 20**</u>