



SPTA

N5 Homework

Algebraic Fractions (A)



Show all working – NO calculator required.

1. Simplify each of the following fractions:

a) $\frac{19}{57}$

(b) $\frac{w^3}{w}$

(c) $\frac{5x}{10}$

d) $\frac{12x^2}{36x}$

(e) $\frac{(2x+1)}{(2x+1)(2x-1)}$

(f) $\frac{x^2 + 5x + 6}{(x+3)}$

g) $\frac{x^2 - x - 6}{x^2 + 4x + 4}$

(h) $\frac{m}{5} + \frac{m}{4}$

(i) $\frac{m+4}{2} + \frac{m-3}{5}$

j) $\frac{4}{x} - \frac{1}{x+3}$

(k) $\frac{x+1}{x+2} + \frac{x-2}{x+1}$

(l) $\frac{7}{3k} \times \frac{9k}{21}$

m) $\frac{3x}{5} \times \frac{2}{9x^2}$

(m) $\frac{1}{a^2} \div \frac{2}{a}$

(o) $\frac{2x}{y} \div \frac{4x^2}{3y}$

Total Marks: 30