Algebraic Fractions: Simplify, Add & Subtract (Grade 10)

WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 23

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Simplify: $\frac{x^2 - 16}{x + 4}$ **(2)**

2 Simplify: $\frac{x^2 - 25}{x - 5}$ **(2)**

3 Simplify: $\frac{x^2 + 5x + 6}{x^2 - 4}$ **(3)**

4 Simplify: $\frac{6x^2}{3x}$ **(1)**

5 Simplify: $\frac{x^2-1}{x} \div \frac{x+1}{3x}$ **(4)**

6 Simplify: $\frac{1}{x} + \frac{1}{y}$ **(2)**

7 Simplify: $\frac{2}{x+1} + \frac{3}{x-1}$ **(3)**

8 Simplify: $\frac{x-2}{x^3-8}$ **(3)**

9 Simplify: $\frac{x+3}{x^3+27}$ **(3)**

TOTAL: 23 marks

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