

MRS21 Homework 11

Perform the indicated operation and simplify, if possible.

SHOW ALL WORK ON A SEPARATE SHEET OF PAPER.

$$1. \quad \frac{7}{4y} + \frac{3}{4y} - \frac{2}{4y}$$

$$2. \quad \frac{x}{2c} + \frac{y}{2c} + \frac{z}{2c}$$

$$3. \quad \frac{5z+9}{z^2-25} + \frac{16}{z^2-25}$$

$$4. \quad \frac{2k^2}{k^2+3k} - \frac{k^2+9}{k^2+3k}$$

$$5. \quad \frac{x^2y+2}{2xy} - \frac{xy^2+2}{2xy}$$

$$6. \quad \frac{5y}{y^2-5y} + \frac{y^2}{5y-y^2}$$

$$7. \quad \frac{x^2-25}{7x-x^2} \div \frac{x^2+7x+10}{x^2-5x-14}$$

$$8. \quad \frac{2x^2-10x}{x^2+2x} \cdot \frac{x^2+5x+6}{15+2x-x^2}$$