

**MA90 Exercises for section 7.3 Addition & Subtraction of Rational Expressions****Short Answer**

1. Perform the indicated operation.

$$\frac{6}{x} + \frac{9}{x}$$

2. Perform the indicated operation.

$$\frac{6}{a} - \frac{1}{a}$$

3. Perform the indicated operation.

$$\frac{y^2}{y-3} - \frac{9}{y-3}$$

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

ID: A

4. Perform the indicated operation.

$$\frac{12}{x(x-6)} + \frac{2}{x}$$

5. Perform the indicated operation.

$$\frac{y+4}{y+3} + \frac{5}{y^2+y-6}$$

6. Perform the indicated operation.

$$\frac{8}{y^2-16} - \frac{7}{y^2-y-12}$$

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

ID: A

7. Perform the indicated operation.

$$\frac{6y}{y^2 + 5y + 4} - \frac{2y}{y^2 + 3y + 2}$$

8. Perform the indicated operation.

$$\frac{1}{z} + \frac{z}{2z + 4} - \frac{2}{z^2 + 2z}$$

9. Perform the indicated operation.

$$1 - \frac{1}{x + 3}$$

10. Perform the indicated operation.

$$1 + \frac{1}{y + 2}$$

**MA90 Exercises for section 7.3 Addition & Subtraction of Rational Expressions  
Answer Section****SHORT ANSWER**

1. ANS:

$$\frac{15}{x}$$

PTS: 1

2. ANS:

$$\frac{5}{a}$$

PTS: 1

3. ANS:

$$y+3$$

PTS: 1

4. ANS:

$$\frac{2}{x-6}$$

PTS: 1

5. ANS:

$$\frac{-1+y}{-2+y}$$

PTS: 1

6. ANS:

$$\frac{1}{(y+4)(y+3)}$$

PTS: 1

7. ANS:

$$\frac{4y}{(y+4)(y+2)}$$

PTS: 1

8. ANS:

$$\frac{1}{2}$$

PTS: 1

9. ANS:  
$$\frac{x+2}{x+3}$$

PTS: 1

10. ANS:  
$$\frac{y+3}{y+2}$$

PTS: 1