Name: _____ Class: _____ Date: _____ ID: A

MA90 Exercises for section 7.6 Complex Fractions

Short Answer

1. Simplify the complex fraction.

$$\frac{\frac{1}{3}}{\frac{8}{9}}$$

2. Simplify the complex fraction.

$$\frac{\frac{x^8}{y^2}}{\frac{x^5}{y^4}}$$

3. Simplify the complex fraction.

$$\frac{1-\frac{9}{y^2}}{1-\frac{1}{y}-\frac{6}{y^2}}$$

.

4. Simplify the complex fraction.

$$\frac{1+\frac{1}{a}}{1-\frac{1}{a^2}}$$

.

5. Simplify the complex fraction.

$$\frac{\frac{1}{3x} - \frac{y}{3x^2}}{\frac{1}{12} - \frac{y}{12x}}$$

.

6. Simplify the complex fraction.

$$\frac{\frac{4}{a+1} + 7}{\frac{4}{a+1} + 9}$$

.

7. Simplify each term in the following sequence.

$$2 + \frac{8}{2+8}, 2 + \frac{8}{2 + \frac{8}{2+8}}, 2 + \frac{8}{2 + \frac{8}{2 + \frac{8}{2+8}}}, \ldots$$

MA90 Exercises for section 7.6 Complex Fractions
Answer Section

SHORT ANSWER

1. ANS:
$\frac{3}{8}$

PTS: 1
2. ANS:
$x^3 y^2$

PTS: 1
3. ANS:
$\frac{y+3}{y+2}$

PTS: 1
4. ANS:
$\frac{a}{a-1}$

PTS: 1
5. ANS:
$\frac{4}{x}$

PTS: 1
6. ANS:
$\frac{7a+11}{9a+13}$

PTS: 1
7. ANS:
$\frac{14}{5}, \frac{34}{7}, \frac{62}{17}$

PTS: 1