

The deadline for all homework assignments is the one specified in Archie before 11:59 pm. As discussed in class, It must be correctly uploaded in order to be graded. Show all your work and justifications.

For Exercises 99–116 (Odd), simplify the expression.

$$99. \frac{2x^3y}{x^2y + 3xy} \cdot \frac{x^2 + 6x + 9}{2x + 6} \div 5xy^4 \quad \frac{x}{5y^4}$$

$$101. \left(\frac{4}{2t + 1} - \frac{t}{2t^2 + 17t + 8} \right) (t + 8) \quad \frac{3t + 32}{2t + 1}$$

$$103. \frac{n - 2}{n - 4} + \frac{2n^2 - 15n + 12}{n^2 - 16} - \frac{2n - 5}{n + 4} \quad 1$$

$$105. \frac{1 - a^{-1} - 6a^{-2}}{1 - 4a^{-1} + 3a^{-2}} \quad \frac{a + 2}{a - 1}$$

$$107. \frac{34}{2\sqrt{5} - \sqrt{3}} \quad 4\sqrt{5} + 2\sqrt{3}$$

$$109. \frac{8 - \sqrt{48}}{6} \quad \frac{4 - 2\sqrt{3}}{3}$$

$$111. \frac{14}{\sqrt{7x}} - \frac{\sqrt{7x}}{x} \quad \frac{\sqrt{7x}}{x}$$

$$113. \frac{45 + 9x - 5x^2 - x^3}{x^3 - 3x^2 - 25x + 75} \quad -\frac{x + 3}{x - 5}$$

$$115. \frac{t + 6}{1 + \frac{2}{t}} - t - 4 \quad -\frac{8}{t + 2}$$