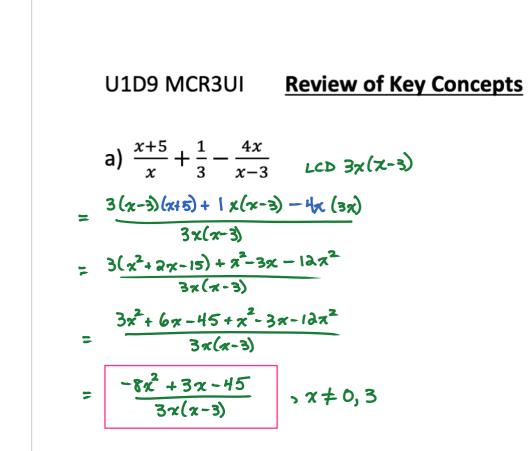
U1D9_T Review of Key Concepts

Sunday, February 3, 2019 7:59 PM



U1D9_T Review of...



b)
$$\frac{3x^{3}y - 15x^{2}y}{x^{2} - xy - 2y^{2}} \times \frac{3x^{2} - 5xy - 2y^{2}}{3x^{5} + 16x^{4}y + 5x^{3}y^{2}} \xrightarrow{3y^{2}}_{3121}$$

$$= \frac{3y}{(x - 5)} \times \frac{(3x + y)(x - 2y)}{x^{3}(3x + y)(x + 5y)} \times \frac{(3x + y)(x - 2y)}{x^{3}(3x + y)(x + 5y)} \xrightarrow{3y^{2}}_{3151}$$

$$= \frac{3y(x - 5)}{x(x + y)(x + 5y)} \times \frac{x \neq 2y, -y, 0, -\frac{y}{3}, -5y}{x(x + y)(x + 5y)}$$

c)
$$\frac{\frac{x-5}{10x}}{\left[\frac{1}{x^2}-\frac{1}{5x}\right]}$$

$$= \left(\frac{\chi-5}{10\chi}\right) \div \left(\frac{1}{\chi^2}-\frac{1}{5\chi}\right)^{-\frac{x-5}{5\chi^2}}$$

$$= \left(\frac{\chi-5}{10\chi}\right) \div \left(\frac{5-\chi}{5\chi^2}\right)$$

$$= \frac{1}{10\chi} \times \frac{1}{5\chi^2}$$

$$= \frac{1}{10\chi} \times \frac{1}{5\chi^2}$$

$$= -\frac{\chi}{\lambda} \times \frac{1}{\chi} \times \frac{1}{\chi} \times \frac{1}{\chi}$$