

Pg. A70 0.7 – Errors and the Algebra of Calculus

Ex 1:

Describe and correct the error.

$$\begin{array}{r} \cancel{6x+y} \quad \cancel{x+y} \\ \hline \cancel{6x-y} \quad \cancel{x-y} \end{array}$$

Ex 2:

Insert the required factor in the parentheses.

(a) $\frac{7x^2}{10} = \frac{7}{10}(\quad)$

(b) $x(1-2x^2)^3 = (\quad)(1-2x^2)^3(-4x)$

Ex 3:

Write the expression using negative exponents.

$$\frac{x+1}{x(6-x)^{\frac{1}{2}}}$$

Ex 4:

Write the fraction as the sum of two or more terms.

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

Ex 5:

Simplify the expression.

$$\frac{x^5(-3)(x^2+1)^{-4}(2x) - (x^2+1)^{-3}(5)x^4}{(x^5)^2}$$