

Question #5 Correction

$$\frac{ax+b}{1} = \frac{cx}{d}$$

$$\begin{array}{r} cx = adx + bd \\ -adx \quad -adx \end{array}$$

$$\begin{array}{r} cx - adx = bd \\ x(c - ad) = bd \\ \hline (c - ad) \quad (c - ad) \end{array}$$

$$x = \frac{bd}{(c - ad)}$$

Question 18 Correction

$$\begin{aligned} \frac{10^{-2} x^4 y^{-2} z^{-6}}{5^{-2} x^3 y^2 z^{-4}} &= \frac{5^2 x^4 z^4}{10^2 x^3 y^2 z^4} \\ &= \frac{\cancel{2}^2 x^4 \cancel{z}^4}{\cancel{2}^2 x^3 y^2 \cancel{z}^4} \\ &= \frac{4 x^2 z^2}{4 x^2 y^2 z^2} \\ &= \frac{1}{4 x^2 y^2 z^2} \end{aligned}$$

Final Answer

Question 45 Correction

← Negative Feedback

$$\frac{6 \rightarrow 5x}{6x^2 - 9x} - \frac{(x-2)(2x-3)}{3x(2x-3)}$$
$$\Rightarrow 3x(2x-3)$$

OTTS

$$(x-2)(2x-3)$$
$$= 2x^2 - 3x - 4x + 6$$
$$= 2x^2 - 7x + 6$$

$$\frac{\cancel{6} - 5x - 2x^2 + 7x - \cancel{6}}{3x(2x-3)}$$

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

$$\frac{-2x(x-1)}{3x(2x-3)}$$

$$\frac{-2(x-1)}{3(2x-3)}$$

ALL 3 Answers
ACCEPTED