MATHEMATICS SHORT COURSE

Self Assessment Quiz – Answers

Express $\frac{g}{p}$ $\frac{u}{f}$ as a single fraction

Answer:

$$\frac{g}{p} \quad \frac{u}{f}, \quad \frac{gf \quad pu}{pf}$$

Express $\frac{f}{t} \times \frac{p}{j}$ as a single fraction

Answer:

$$\frac{f}{t} \times \frac{p}{j}, \quad \frac{fp}{tj}$$

3   Express $\frac{c}{w} / \frac{j}{z}$ as a single fraction

Answer:

$$\frac{c}{w} / \frac{j}{z}, \quad \frac{cz}{jw}$$

$,^{!}$ Express

hat is the value of $\log_{10}$ $^{-7}$ ⸮

Answer:

$$\log_{10}\quad ^{-7}\ ,\quad -\ .$$

hat is the value of $\log_{10}$. $\log_{10}$. ⸮

Answer:

$$\log_{10}\ .\quad \log_{10}\ .\ ,\quad -.$$

Solve for **x** in the equation ＾**x**   ,   −

Answer:

$$＾\mathbf{x}\quad ,\ -\quad \mathbf{x}\, ,\ -$$

Solve for **x** in the equation $-\frac{1}{6}\mathbf{x}$.

Answer:

$$--\mathbf{x}\quad .\qquad \mathbf{x}\, ,\ -3$$

Find the roots of the − **x**   − **x** − 3 ,

Answer:

$$-\ \mathbf{x}\qquad -\ \mathbf{x}-3\ ,\qquad \mathbf{x}\, ,\qquad \text{or}\ \mathbf{x}\, ,\ --.$$

Find the roots of $\mathbf{x}^2$ **x** ,   −

Answer:

$$\mathbf{x}^2\qquad \mathbf{x}\, ,\ -\qquad \mathbf{x}\, ,\ -.\ '\ \text{or}\ \mathbf{x}\, ,\ -\ .$$

Find the roots of $\mathbf{x}^2 -$,

Answer:

$$\mathbf{x}^2-\quad ,\qquad \mathbf{x}\, ,\ -.\ '\ \text{or}\ \mathbf{x}\, ,\ .'$$

3 Find the roots of $\mathbf{x}^2 -$ **x** − ,

Answer:

$$\mathbf{x}^2-\ \mathbf{x}-\quad ,\qquad \mathbf{x}\, ,\ -\quad \text{or}\ \mathbf{x}\, ,\quad .$$

.′ Find the roots of x^2 x .

Answer:

x^2 x , x, − or x, −−.

Simplify the expression $\frac{x^- y}{(x^{-3}y^-)^-}$

Answer:

$$\frac{x^{-8}y^8}{x^{-3}y^{-8\ -6}} ,\quad x^{-26}y^{-40}$$

Factorise $-x^9y$ x^2y

Answer:

$-x^9y$ x^2y , $-x^2y$ $x^7 -$, x^2y $- x^7$

If $\frac{1}{y} -$ x , − nd the formula which gives y in terms of x That is rearrange the formula to get
y, f x

Answer:

$\frac{-}{y} -$ x, − y, $\frac{}{x-}$

If $\log_{10}$ x, − what is x

Answer:

$\log_{10}$ x, − x, .

If ^{lx}, what is x

Answer:

^{lx}, x, ′

3 Express $^{-x\ 2}\ ^{y\ 4}$ as a single power of

Answer:

$^{-x\ 2}\ ^{y\ 4}$, $^{4y-2x}$.