

FRACCIONES Y ECUACIONES

Resuelve los siguientes planteamientos:

1. $(\frac{2}{3} + \frac{3}{7}) \times (\frac{3}{8} - \frac{2}{9}) = \frac{23}{21} \times \frac{11}{72} = \frac{253}{1512} = \frac{253}{1512}$

$$\begin{array}{r} 3 \ 7 \overline{) 3} > 21 \\ 1 \ 7 \overline{) 7} > 21 \\ \hline 1 \end{array}$$

$$\frac{11 \ 19}{21} = \frac{23}{21}$$

$$\frac{27-16}{72} = \frac{11}{72}$$

$$\begin{array}{r} 8 \ 9 \overline{) 2} > 4 \\ 4 \ 9 \overline{) 2} > 8 \\ 2 \ 9 \overline{) 2} > 24 \\ 1 \ 9 \overline{) 3} > 24 \\ 3 \ 3 \overline{) 72} \end{array}$$

2. $3x + 10 = 5x + 16$

$$3x - 5x = 16 - 10$$

$$-2x = 6$$

$$x = \frac{6}{-2}$$

$$x = -3$$

3. $\begin{cases} 3(2x + y) = 22 \\ -2(3x - 5y) = -19 \end{cases}$

Valor de Y	Valor de X	Valor de X
$6x + 3y = 66$	$3x - 40 = -19$	$2x + 8 = 22$
$-6x + 10y = 38$	$3x = -19 + 40$	$2x = 22 - 8$
$13y = 104$	$3x = 21$	$2x = 14$
$y = \frac{104}{13}$	$x = \frac{21}{3}$	$x = \frac{14}{2}$
$y = 8$	$x = 7$	$x = 7$