

Fraction Rules

$+$, $-$ Common Denominator

$$\bullet \quad \frac{\text{top} \cdot \text{top}}{\text{bott} \cdot \text{bott}}$$

$\div$ Flip & mult. bott. fraction

Tip: if whole number, put over 1

Tip: implied mult. $\Rightarrow$ No symbol
" $+$, $-$, $\div$ "

Sign Rules

$+$, $-$ SSA, KSS
DSS, BOW

$$\text{--} \Rightarrow +$$

$\cdot$, $\div$ SP DN

76 $K(N) = 2N - \frac{1}{3}$ $K(-\frac{1}{2}) = ?$

$$K(-\frac{1}{2}) = 2(-\frac{1}{2}) - \frac{1}{3}$$

$$K(-\frac{1}{2}) = -1 - \frac{1}{3} \quad \text{Tori}$$

$$K(-\frac{1}{2}) = -\frac{4}{3}$$

TO

78 $g(x) = x - \frac{1}{2}$, $g(\frac{7}{5})$

$$g(\frac{7}{5}) = (\frac{7}{5}) - \frac{1}{2}$$

$$g(\frac{7}{5}) = \frac{14}{10} - \frac{5}{10}$$

$$g(\frac{7}{5}) = \frac{9}{10} \quad \left(\frac{7}{5}, \frac{9}{10}\right) \quad \text{Jacob}$$

x, y

I.V D.V

Domain Range

$$\textcircled{81} \quad k(x) = \frac{1}{4}x - \frac{4}{3}, \quad k(-2) = ?$$

$$k(-2) = \frac{1}{4} \left(\frac{-2}{1} \right) - \frac{4}{3}$$

$$= -\frac{1}{2} - \frac{4}{3}$$

$$= -\frac{3}{6} - \frac{8}{6}$$

$$\boxed{= -\frac{11}{6}}$$

$$\left(\underset{\substack{\uparrow \\ x}}{-2}, \underset{\substack{\uparrow \\ y}}{-\frac{11}{6}} \right)$$

$$k(x) = \frac{1}{4}x - \frac{4}{3}$$

$$y = k(x) = \frac{1}{4}x - \frac{4}{3}$$

$$y = \frac{1}{4}x - \frac{4}{3}$$

$$* \quad \boxed{y = mx + b} \quad \text{Linear Function}$$

$$(85) \quad \omega(x) = x + 4, \quad \omega(4x) = ?$$

$$\downarrow$$

$$\omega(4x) = (4x) + 4.$$

$$\boxed{\omega(4x) = 4x + 4}$$

$$(4x, 4x+4)$$

$$\begin{array}{cc} \uparrow & \uparrow \\ 1x & 4x \end{array}$$

$$(89) \quad K(N) = 2N + 1, \quad K\left(\frac{N}{2}\right) = ?$$

$$K\left(\frac{n}{2}\right) = 2\left(\frac{n}{2}\right) + 1$$

$$\boxed{K\left(\frac{n}{2}\right) = n + 1}$$

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