

Ejercicios de operaciones con números Reales

$$\frac{\frac{1}{2} - \frac{3}{4} + \frac{7}{8}}{\frac{1}{2} + \frac{3}{4} - \frac{7}{8}}$$

$$\frac{\frac{4}{8} - \frac{6}{8} + \frac{7}{8}}{\frac{4}{8} + \frac{6}{8} - \frac{7}{8}} = \frac{\frac{5}{8}}{\frac{3}{8}}$$

$$1 - \frac{1}{1 + \frac{1}{2}}$$

$$1 - \frac{1}{1 + \frac{1}{2} \cdot \frac{2}{2}}$$

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

$$2 + \frac{3}{1 + \frac{5}{2}}$$

$$2 + \frac{3}{\frac{7}{2}}$$

$$3 \frac{2}{7} \rightarrow \frac{6}{7} \quad \frac{14}{7} + \frac{6}{7} = \frac{20}{7}$$

$$\left(\frac{2}{7} - 5\right) / \left(1 - \frac{1}{7}\right)$$

$$\frac{\frac{2}{7} - 5}{\frac{1}{7} - 1}$$

$$\frac{\frac{2}{7} - \frac{35}{7}}{\frac{1}{7} - \frac{7}{7}} = \frac{\frac{-33}{7}}{\frac{-6}{7}} = \frac{-11}{2}$$

Ejercicios de operaciones con números Reales

$$4 - 2(8 - 11) + 6$$

$$3[2 - 4(7 - 12)] \quad 1. \quad 7-12 = -5 \quad 2. \quad 3[2 - (-20)] \quad 3. \quad 3[22] \quad 4. \quad 66$$

$$-4[5(-3 + 12 - 4) + 2(13 - 7)] \quad -4[5 \times 5 + 2 \times 6] \quad -4 \times 37 = -148$$

$$5[-1(7 + 12 - 16) + 4] + 2 \quad 5[-1(3) + 4] + 2 \quad 5[1] + 2 \quad 5 + 2 = 7$$

$$\frac{3}{4-7} + \frac{3}{21} - \frac{1}{6} \quad \frac{-42}{-42} + \frac{6}{42} - \frac{7}{42} \quad \frac{-36}{42} - \frac{7}{42} = \frac{-43}{42}$$

$$\frac{1}{3}[\frac{1}{2}(\frac{1}{4} - \frac{1}{3}) + \frac{1}{6}] \quad \frac{1}{3}[\frac{6}{72}(\frac{-1}{12})] \quad \frac{4}{12}[\frac{-4}{12}] \rightarrow \frac{1}{3} \times \frac{-1}{3} = \frac{-1}{9}$$

$$-\frac{1}{3}[\frac{2}{5} - \frac{1}{2}(\frac{1}{3} - \frac{1}{5})] \quad \frac{2}{15} \times \frac{1}{2} = \frac{2}{30} \quad \frac{12}{30} - \frac{4}{30} = \frac{8}{30}$$

$$\frac{5}{15} - \frac{3}{15} \rightarrow \frac{2}{15}$$

$$-\frac{10}{30}[\frac{8}{30}] \rightarrow \frac{-1}{3}[\frac{4}{15}]$$

$$\frac{-4}{45}$$

$$\frac{11}{7} - \frac{12}{21} \quad \frac{33}{21} - \frac{12}{21} = \frac{21}{21}$$

$$\frac{11}{7} + \frac{12}{21}$$

$$\frac{33}{21} + \frac{12}{21} = \frac{45}{21}$$

7. $(3 - 14) = -11$ 2. $C - C = 0$ 3. 18

$$-6 - 3(7 + 8) = (-11 + 8) \quad 2. -6 - 3(1) \quad 3. -6 - 3 = -9$$

$$-9 + 2(8 - 7) - (8 + 7) \quad -9 + 2(15) \quad -9 + 30 = 21$$

$$(-9) \cdot 8 = -72$$

8 (1/8) = $1 \div 8 = 0.125$ 2. $0.125 \times 8 = 1$ 3. **1**

$$(2/3)(3/5) = \frac{2}{3} \times \frac{3}{5} = \frac{6}{15} = \frac{2}{5}$$

$$8(4) = 32$$

$$(-4)(-6) = (-)(-) = +$$

$$-4 \times -6 = 4 \times 6 = 24$$

$$8(-5) = (+)(-) = -$$

$$-40$$

$$5(-4)(-2) = (-)(-) = +$$

$$5(8) = 40$$

$$(-40)$$

$$(-6)(-2)(-1) = (-)(-) = +$$

$$(-6)(-2) = 12$$

$$2. (12)(-1) = 3. -12$$

$$(-3)(-2)(-5)(-4)(-1) = (-)(-) = +$$

$$(-3)(-2) = 6$$

$$2. (6)(-5) = -30$$

$$3. (-30)(-4) = 120$$

$$4. (120)(-1) = -120$$

$$4(6) = 4 \times 6 = 24$$

$$(-5)(-9) = -5 \times -9 = 45$$

$$9(-4) = 9 \times -4 = -36$$

$$(+)(-) = -$$

$$3(-5)(-1) = (-)(-) = +$$

$$3(5) = 15$$

$$(-8)(-5)(0) = 0$$

$$15 + (12 - 3) = 15 + (12 - 3) = 24$$

$$(13 - 8) - (15 + 3) + (4 + 2) = (5) - (18) + 6$$

$$6 - 18 = -13$$

$$6 + \{15 + [5 + (6 + 3) - (8 - 2)]\} - 1 =$$

$$1. 6 + \{15 + [5 + (9 - 6)]\} - 1$$

$$2. 6 + \{15 + 8\} - 1$$

$$3. 6 + 23 - 1 = 28$$

Cálculo Diferencial

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Resuelva los siguientes ejercicios efectuando las operaciones pertinentes y resaltando la Respuesta:

$$10 - 2 = 8$$

$$-3 - 7 = -10$$

$$-5 + 2 = -3$$

$$3 + (4 + 5) = 1. 3 + (4 + 5) \quad 2. 3 + (9) \quad 3. 3 + 9 \quad 4. 12$$

$$5 + (2 - 7) = 1. 5 + (2 - 7) \quad 2. 5 + (-5) = 3. 0$$

$(+)(-) = -$ $(+)(-) = -$
 $2 - 7 = -5$ $5 - 5 = 0$

$$-7 + (-2 - 9) = 1. -7 + (-2 - 9) \quad 2. -7 + (-11) \quad 3. -18$$

$(-)(-) = +$ $(+)(-) = -$
 $(-2 - 9) = -11$

$$1 - 7(-6 + 9) = 1. 1 - 7(-6 + 9) \quad 2. 7(3) = 21 \quad 3. 1 - 21 = -20 \quad 4. -20$$

$(-)(+) = -$

$$-10 + (8 + 7) = 1. -10 + (8 + 7) \quad 2. -10 + 15 \quad 3. 5$$

$(+)(+) = +$

$$\frac{-10}{5(-2)} = 1. \frac{-10}{5(-2)} \quad 2. \frac{-10}{-10} = 1$$

$(+)(-) = -$

$$1/2 + 3/4 = 1. \frac{1}{2} = \frac{2}{4} \quad 2. \frac{2}{4} + \frac{3}{4} = \frac{5}{4}$$

$$3/5 - 7/8 = 1. \frac{24 - 35}{40} \quad 2. \frac{-11}{40}$$

$$3/7 + 5/3 - 2/7 = 1. \frac{6 + 35 - 6}{21} \quad 2. \frac{41 - 6}{21} \quad 3. \frac{35}{21} \quad 0. \frac{5}{3}$$

$$3/2 + 2/3 + -1/4 = 1. \frac{18 + 8 - 3}{12} \quad 2. \frac{26 - 3}{12} \quad 3. \frac{23}{12}$$