

Ejercicios Combinados

HOJA: 1

(SI, EMPIEZA CON EL 17)

17)

$$\frac{-2^{-1}}{-\frac{1}{2}+1^{-1}} \left(2^{-1} - \frac{1}{2} \right)$$

Rta.: $-\frac{1}{4}$

18)

$$\left(\sqrt[3]{-\frac{1}{27}} \right)^{-2} - \frac{1: \frac{3}{2}}{3 \times \frac{1}{9}} - 1^{-3}$$

Rta.: 6

19)

$$\left[1 - \left(1 - \frac{3}{2} \right)^{-2} \sqrt{1 - \frac{3}{4} + \frac{3}{2}} \right]^{-1}$$

Rta.: 2

20)

$$\left(\sqrt{\left(\frac{3}{5} \right)^{-2} - 1} - \left[1 : \left(\frac{1}{2} \right)^{-1} \right] \right)$$

Rta.: $\frac{5}{6}$

21)

$$\frac{2^{-1} - \frac{2}{3} \left(1 - \frac{1}{2} \right)^2 + \sqrt[3]{-\frac{1}{8}}}{\frac{2}{3} - \left(1 - \frac{3}{4} \right)}$$

Rta.: $-\frac{2}{5}$

22)

$$\left\{ \left[\sqrt[3]{\frac{3}{2} \left(-\frac{2}{3} \right)} \right]^{-3} : \left(\frac{5}{12} \right)^2 \right\}^{-1} : \frac{1}{30}$$

Rta.: $-\frac{1}{2}$

23)

$$\frac{3^{-2} \left(\frac{1}{9} \right)^{-2} - \left(2^2 : \left(\frac{1}{2} \right)^{-2} \right)}{\left(\frac{1}{3} \right)^{-2} \left(\frac{1}{9} \right)^{-2}}$$

Rta.: $-\frac{2}{3}$

24)

$$\frac{\frac{3}{4} + \frac{1}{2} - \frac{5}{8}}{\left(\frac{1}{4} \right)^2} \times \left(\frac{3}{2} + 2 \cdot \frac{1}{2} \right)$$

$$\frac{1}{5} - \frac{3}{4}$$

Rta.: -22

25)

$$\frac{4 \times \frac{5}{4} - \frac{1}{5}}{4 \times \frac{11}{10} + \sqrt{\frac{4}{25}}}$$

Rta.: $\frac{1}{6}$

Ejercicios Combinados

HOJA: 2

26)

$$\left[\left(\frac{1}{2} + \frac{3}{4} - \frac{1}{10} \right) \times \frac{4}{3} - 1 \right]^{-1} \quad \text{Rta.: } \frac{15}{8}$$

27)

$$\frac{12}{5} : \frac{3}{5} - \frac{3}{7} : 6 - \frac{1}{7} + \frac{\sqrt{3} : \frac{1}{3}}{14} \quad \text{Rta.: } -3$$

28)

$$\left[4 : \frac{1}{5} + \frac{3}{5} \times \frac{1}{10} + \frac{1}{25} - \frac{1}{10} \right] : \sqrt{16} \quad \text{Rta.: } 5$$

29)

$$\left[\frac{\frac{3}{4} \left(1 - \frac{1}{5} \right) + \frac{1}{3}}{\frac{1}{5} \left(\frac{1}{2} - 1 \right)} \right]^{-1} \quad \text{Rta.: } -\frac{3}{28}$$

30)

$$\left[\frac{2 + \frac{1}{10}}{\frac{1}{10}} - 3 : \frac{1}{2} + \frac{\frac{2}{5} \times 1 \frac{1}{20}}{\frac{1}{10}} \right] : \sqrt{\frac{1}{25}} \quad \text{Rta.: } 96$$

31)

$$\left[\frac{\left(1 - \frac{3}{10} \right) : \left(\frac{2}{3} + \frac{1}{2} \right)}{\frac{1}{2} \left(\frac{4}{5} - 1 \right)} \right]^{-2} \quad \text{Rta.: } \frac{1}{36}$$

32)

$$\sqrt{\frac{1}{16} \times \frac{2}{5}} + \frac{1}{100} - \frac{1}{20} \sqrt{\frac{3}{4} - \frac{1}{2}} + 15 \left(\frac{1}{10} \right)^2 \quad \text{Rta.: } \frac{1}{6}$$

33)

$$\frac{\left(\frac{7}{5} - \frac{3}{5} - \frac{1}{2} \right) \left(1 - \frac{5}{6} \right)^{-2}}{\sqrt[3]{-3 \left(-\frac{1}{3} \right)^{-2} \times \frac{2}{3} \times 6}} \quad \text{Rta.: } -\frac{9}{10}$$

34)

$$\sqrt{\frac{\frac{15}{4} - \frac{1}{5} : \frac{71}{3}}{\frac{1}{20}} - 3 : \frac{1}{100}} \quad \text{Rta.: } 0$$

Ejercicios Combinados

HOJA: 3

35)

$$2^{-1} \times \frac{1 - \frac{3}{2}}{2 - \frac{13}{9}} + \frac{1}{5} : \sqrt{\frac{16}{5} : 5}$$

Rta.: $\frac{11}{25}$

36)

$$\frac{\sqrt{\frac{1}{2} + \frac{3}{4} - 1} \left(\frac{1}{10}\right)^{-1}}{\frac{4}{5} \times \frac{25}{2}} - \sqrt[3]{\frac{9}{8} - 1}$$

Rta.: 0

37)

$$\frac{\left(\frac{2}{3}\right)^{-2} \left(\frac{2}{3}\right)^3 \sqrt{4}}{\left(\frac{1}{2}\right)^{-2} 3^{-3}} - \left(\frac{5}{2} \sqrt[3]{\frac{1}{5} - \frac{17}{125}}\right)^{-2}$$

Rta.: 2

38)

$$\left(\frac{1}{\frac{2}{3} - \frac{3}{2}}\right)^{-1} - \frac{1}{2} : \sqrt{3 - \frac{3}{4}} - [(-2)^2]^{-1}$$

Rta.: $-\frac{17}{12}$

39)

$$\sqrt{\left(40 + \frac{1}{2}\right) 2^{-1}} - \frac{\left(\frac{2}{3} - 1\right)^{-2} : \left(\frac{1}{5}\right)^{-1}}{\left(1 - \frac{1}{4}\right)^2} + \frac{\left(\frac{2 - \frac{1}{3}}{3 - 1}\right)^{-2}}{\frac{1 - \frac{2}{2}}{2 - \frac{3}{4} - \frac{2}{3}}}$$

Rta.: $-\frac{1}{2}$

40)

$$\frac{\left(\frac{3}{4}\right)^{-1} - 2}{\left(\frac{1}{2}\right)^{-2}} - \sqrt[3]{\left(-\frac{1}{8}\right)^2}$$

$$\frac{\sqrt{\left(2 - \frac{3}{4}\right) : 5} + 5}{\left(\frac{2}{3} + \frac{1}{2} - 1\right)}$$

Rta.: $-\frac{1}{3}$

41)

$$\sqrt[3]{\frac{\left(\frac{3}{5}\right)^{-1} - \frac{1}{6}}{\sqrt[3]{\frac{3}{4} - 1 + \frac{1}{8}}}} \times \frac{10}{\left(\frac{3}{2}\right)^{-2} + \frac{2}{3}}$$

Rta.: -3