Exercicis de repàs

Juanjo

Operacions combinades amb nombres enters

1. $-5 + 3 \cdot (-2) - 8 \div 4$
2. $(12 - 15) \cdot 3 + (-8) \div (-2)$
3. $-20 \div 5 - 3 \cdot (-4) + 7$
4. $[(-6) + 9] \cdot 2 - 15 \div (-3)$
5. $4 - [8 - (-3)] + 5 \cdot (-2)$
6. $-12 \div (-4) + (-5) \cdot 3 - (-7)$
7. $(18 - 25) \div 7 + (-4) \cdot (-3)$
8. $-9 + [6 \cdot (-2) + 15] \div 3$
9. $5 \cdot (-4) - (-12) \div 3 + 8$
10. $[-10 + 4 \cdot (-3)] \div (-2) + 5$

Operacions amb fraccions

1. $\frac{2}{3} + \frac{5}{6} - \frac{1}{2}$
2. $\frac{3}{4} \cdot \frac{8}{9} \div \frac{2}{3}$
3. $\frac{7}{5} - \left(\frac{2}{3} + \frac{1}{2} \right)$
4. $\frac{2}{3} \cdot \left(\frac{4}{5} - \frac{1}{2} \right)$
5. $\frac{3}{8} + \frac{5}{6} \cdot \frac{3}{10}$
6. $\left(\frac{1}{2} + \frac{1}{3} \right) \div \frac{5}{6}$
7. $\frac{4}{7} \cdot \frac{14}{15} - \frac{1}{3}$
8. $\frac{5}{9} + \frac{2}{3} \div \frac{4}{5}$
9. $\frac{3}{4} - \frac{2}{5} \cdot \frac{10}{12}$
10. $\left(\frac{2}{3} - \frac{1}{4} \right) \cdot \frac{6}{5}$

Equacions de primer grau

1. $3x + 5 = 17$
2. $2x - 7 = 3x + 4$
3. $4(x - 3) = 2x + 8$
4. $\frac{x}{2} + 5 = 3x - 1$

5. $5 - 2x = 3x + 15$

6. $3(2x - 1) = 4(x + 3)$

7. $\frac{2x-3}{4} = \frac{x+1}{2}$

8. $7x - 2(3x - 1) = 5$

9. $\frac{x+4}{3} - \frac{2x-1}{6} = 2$

10. $2x - \frac{3x-2}{4} = 5$

Equacions de segon grau

1. $x^2 - 5x + 6 = 0$

2. $2x^2 + 3x - 2 = 0$

3. $x^2 - 9 = 0$

4. $3x^2 - 12x = 0$

5. $x^2 + 4x + 4 = 0$

6. $4x^2 - 1 = 0$

7. $x^2 - 6x + 8 = 0$

8. $2x^2 - 7x + 3 = 0$

9. $x^2 + 2x - 15 = 0$

10. $5x^2 - 20 = 0$