

INSTITUTO PRIVADO
RAFAEL AREVALO MARTINEZ



CURSO:
Matemática

CATEDRATICA:
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GRADO:
4to. Admón.

TAREA #3 de Matemática

P

Propiedad de los números



Irracionales

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$$1) \frac{3 + \sqrt{8}}{5} = \frac{3 + 2.83}{5} = \frac{5.83}{5} = 1.17$$

$$2) \frac{7 - \sqrt{3}}{2} = \frac{7 - 1.73}{2} = \frac{5.27}{2} = 2.64$$

$$3) \frac{4}{7 - \sqrt{2}} = \frac{4}{7 - 1.41} = \frac{4}{5.59} = 0.72$$

$$4) \frac{1}{1 + \sqrt{2}} = \frac{1}{1 + 1.41} = \frac{1}{2.41} = 0.41$$

$$5) \frac{9 + \sqrt{15}}{11 - \sqrt{3}} = \frac{9 + 3.87}{11 - 1.73} = \frac{12.87}{9.27} = 1.39$$

$$6) \frac{15 - \sqrt{75}}{1 + \sqrt{115}} = \frac{15 - 8.66}{1 + 10.72} = \frac{6.34}{11.72} = 0.54$$

$$7) \frac{7 + \sqrt{68}}{16 - \sqrt{35}} + (\sqrt{5})^4 = \frac{7 + 8.25}{16 - 5.92} + 25.18 =$$

$$\frac{15.25}{10.08} + 25.18 = 1.51 + 25.18 = 26.69$$

$$8) \sqrt{\frac{\sqrt{6 \cdot 18}}{(\sqrt{8})^3 \cdot \sqrt{3}}} = \sqrt{\frac{\sqrt{108}}{22.66 \cdot 1.73}} = \sqrt{\frac{10.39}{39.20}} =$$

$$\sqrt{0.26} = 0.51$$

$$9) \frac{(\sqrt[3]{735091})^2}{(\sqrt{49+4})^3} = \frac{(\sqrt[3]{857.37})^2}{148.877} = \frac{(9.50)^2}{148.877} =$$

$$\frac{90.25}{148.877} = 6.06$$

$$10) \frac{25 + \sqrt{42}}{17 + \sqrt{45}} \cdot (\sqrt{3})^3 = \frac{25 + 6.48}{17 + 6.71} \cdot (1.73)^3 =$$

$$\frac{31.48}{23.71} \cdot 5.18 = 1.33 \cdot 5.18 = 6.89$$

$$11) \sqrt{\frac{36}{49}} \cdot \sqrt{\frac{14884}{24025}} = \sqrt{0.73} \cdot \sqrt{0.62} =$$

$$0.85 \cdot 0.79 = 0.67$$

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$$12) (\sqrt{\sqrt{50,625}})^2 = (\sqrt{225})^2 = (15)^2 = 225.$$

$$13) (\sqrt[3]{8})^3 + \sqrt[3]{729} = (1.41)^3 + 9 = 2.8049 = 11.80.$$

$$14) \frac{(\sqrt{\sqrt{707281}})^3}{(\sqrt[3]{218+125})} = \frac{(\sqrt{841})^3}{(\sqrt[3]{343})} = \frac{(29)^3}{7} = \frac{24389}{7} = 3484.14$$

$$15) \sqrt{\frac{\sqrt{36 \cdot 3}}{(\sqrt{4})^3 \cdot \sqrt{9}}} + (\sqrt{16+9})^3 = \sqrt{\frac{\sqrt{108}}{(2)^3 \cdot 3}} + (25)^3 = \sqrt{\frac{10.39}{8 \cdot 3}} + 15625 = \sqrt{\frac{10.39}{24}} + 15625 = \sqrt{0.43} + 15625 = 0.66 + 15,625 = 15,625.66$$

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