Problemas

9.14)

(a)
$$\int_{4} . \int_{25} = \sqrt{n}$$
 $2 \cdot 5 = 10 = \int_{100}^{100}$ Noter the $\int_{4} . \int_{25} = \int_{4.25}^{4.25}$

$$\left(\sqrt{2}\cdot\sqrt{3}\right)^2=2\cdot3=6$$

(c)
$$\sqrt{2} \cdot \sqrt{3} = \sqrt{5}$$
 $\sqrt{2 \cdot 3} = \sqrt{6}$

Importante: Si a y 6 son no-negativos, entonces

9.15)

(a)
$$\sqrt{2} \cdot \sqrt{8} = \sqrt{2.8} = \sqrt{16} = 4$$

$$= \sqrt{3^2 \cdot 2^2 \cdot 5^2} = 3 \cdot 2 \cdot 5 = 30$$

(c)
$$\sqrt{24} \cdot \sqrt{10} \cdot \sqrt{15} = \sqrt{4 \cdot 3 \cdot 2 \cdot 5 \cdot 2 \cdot 5 \cdot 3} = \sqrt{3^2 \cdot 5^2 \cdot 4^2}$$

= $3 \cdot 5 \cdot 4 = 60$

(d)
$$(5\sqrt{3}) - 3\sqrt{24} = 15 \cdot \sqrt{3^4} = 15 \cdot 9 = 135$$

9.16)

(a)
$$\sqrt{\frac{49}{4}} = \sqrt{99 \cdot \frac{1}{4}} = 7 \cdot \frac{1}{2} = \frac{7}{2}$$

$$\sqrt{\frac{54}{384}} \qquad \frac{54}{384} = \frac{18}{128} = \frac{9}{64}$$

$$\sqrt{\frac{1}{64}} = 3 \cdot \frac{1}{8} = \frac{3}{8}$$

(c)
$$\sqrt{\frac{1}{1}} \frac{1}{q} = \frac{qq}{q} + \frac{1}{q} = \frac{100}{q}$$

$$\sqrt{\frac{100}{q}} = 10 \cdot \frac{1}{3} = \frac{10}{3} = 3\frac{1}{3}$$

$$\frac{3}{\sqrt{6}} = \frac{3}{\sqrt{6}} = 3$$

$$\frac{\sqrt{63}}{\sqrt{20}} = \sqrt{\frac{63}{20}} = \frac{4}{4}$$

$$= \sqrt{\frac{2}{4}} = 3 \cdot \frac{1}{2} = \frac{3}{2}$$

Importante: Si a es no-negativo y b es positivo, entonces;

(a)
$$\sqrt{0.64} = \sqrt{64 \cdot 10^{-2}} = \sqrt{64 \cdot \frac{1}{100}} = 8 \cdot \frac{1}{10} = \frac{4}{5} = 0.8$$

(6)
$$\sqrt{2.25} = \sqrt{\frac{q}{4}} = \frac{3}{2} = 1.5$$

(c)
$$\sqrt{0.000169} = \sqrt{169 \cdot 10^{-6}} = \sqrt{\frac{169}{(10^{3})^{2}}} = \frac{13}{10^{3}} = 0.013$$

3.52 = 12.25, es decir que se encuentia entre 3.5 y 4, por la que el entera més cercano es 4.

$$9.18$$
)
 $\sqrt{4} + \sqrt{9} = \sqrt{13}$
 $2 + 3 = 5$. No

$$\int_{5^{2} + 12^{2}}^{5^{2} + 12^{2}} = \int_{25+144}^{25+144} = \int_{169}^{169} = 13$$

9.20)

(a)
$$(\sqrt{12})^2 = 12$$
 , $(2\sqrt{3})^2 = 4.3 = 12$

(c)
$$\sqrt{432} = \sqrt{16.9.3} = 4.3\sqrt{3} = 12\sqrt{3}$$

(1)
$$\sqrt{1176} = \sqrt{4 \cdot 6 \cdot 49} = 2 \cdot 7 \sqrt{6} = 14 \sqrt{6}$$

9.21)

9.22)

$$\int_{50} - \int_{10} - \int_{8}$$

$$\int_{25\cdot 2} - \int_{9\cdot 2} - \int_{4\cdot 2}$$

$$5\int_{2} - 3J_{2} - 2J_{2} = 0$$

$$\sqrt{64 t^{64}} = 8 t^{32}$$

$$\sqrt{250} = \sqrt{25.10} = 5.3.16$$

$$\int_{\frac{5}{27}}^{\frac{5}{27}} \cdot \sqrt{\frac{5}{3}} = \sqrt{\frac{25}{81}} = \frac{5}{9}$$

$$A = \sqrt{1.44} = \sqrt{144 \times 10^{-2}}$$

$$B = \frac{13}{11} = 1 \times \frac{2}{11} = 1 \times 10^{-10} = 1.10$$

$$= \frac{12}{10} = 1.2$$

$$\beta = \frac{13}{11} = 1 \frac{2}{11} = 1 + 0.18 = 1.18$$

$$C = \sqrt{8} - 2\sqrt{2} = 2\sqrt{2} - 2\sqrt{2} = 0$$

$$C \neq B \neq A \neq D$$

$$C = \sqrt{8} - 2\sqrt{2} = 2\sqrt{2} - 2\sqrt{2} = 0$$

$$O = \frac{3}{5} + \frac{3}{4} = \frac{(2+1)5}{20} = \frac{27}{20}$$

$$= \frac{1}{70}$$

$$C = \frac{1}{70}$$

$$= 1.35$$

9.3.6)

$$(6)$$
 $\sqrt{525} = \sqrt{25.21} = 5\sqrt{21}$

$$= \sqrt{4.9.4.22} = 2.3.2 \sqrt{22}$$
$$= 12 \sqrt{22}$$

$$9.3.8)$$

$$\sqrt{25.3.x} \cdot \sqrt{2} \times \sqrt{3.2.x} = 5 \cdot 2 \sqrt{21x^2.x}$$

$$= 10 \times \sqrt{21} \times$$

$$\frac{9.3.9}{\sqrt{5}} = \frac{5\sqrt{15} + 2\sqrt{15}}{\sqrt{5}} = \frac{7\sqrt{5}.\sqrt{5}}{\sqrt{5}} = 7\sqrt{3}$$