RACIONALIZACIÓN DE RADICALES

Racionaliza y simplifica:

1) $\dfrac{1}{\sqrt{2}} =$

2) $\dfrac{2}{5\sqrt{3}} =$

3) $\dfrac{\sqrt{2}}{\sqrt{3}} =$

4) $\dfrac{2-\sqrt{2}}{2\sqrt{7}} =$

5) $\dfrac{2+\sqrt{2}}{\sqrt{3}} =$

6) $\dfrac{\sqrt{27}+\sqrt{3}}{\sqrt{3}} =$

7) $\dfrac{8}{\sqrt{7}-\sqrt{3}} =$

8) $\dfrac{1+\sqrt{2}}{1-\sqrt{2}} =$

9) $\dfrac{4}{\sqrt[3]{2}} =$

10) $\dfrac{6}{\sqrt[5]{3^2}} =$

11) $\dfrac{3}{2\sqrt[4]{8}} =$

12) $\dfrac{4}{\sqrt{5}-1} =$

13) $\dfrac{8\sqrt{2}}{2-\sqrt{2}} =$

14) $\dfrac{7}{7+\sqrt{7}} =$

15) $\dfrac{15}{2\sqrt{5}} =$

16) $\dfrac{15}{2+\sqrt{5}} =$

17) $\dfrac{6}{\sqrt[4]{2}} =$

18) $\dfrac{6\sqrt[3]{2}}{\sqrt[4]{2}} =$

19) $\dfrac{2\sqrt{5}}{5\sqrt{2}} =$

20) $\dfrac{\sqrt{7}}{\sqrt{7}-\sqrt{6}} =$

<u>Soluciones:</u>

1) $\dfrac{\sqrt{2}}{2}$ **2)** $\dfrac{2\sqrt{3}}{15}$ **3)** $\dfrac{\sqrt{6}}{3}$ **4)** $\dfrac{\left(2-\sqrt{2}\right)\sqrt{7}}{14}$ **5)** $\dfrac{\left(2+\sqrt{2}\right)\sqrt{3}}{3}$ **6)** 4 **7)** 2 **8)** $-\left(1+\sqrt{2}\right)^2$ **9)** $2\sqrt[3]{4}$ **10)** $2\sqrt[5]{3^3}$

11) $\dfrac{3\sqrt[4]{2}}{4}$ **12)** $\sqrt{5}+1$ **13)** $8\sqrt{2}+8$ **14)** $\dfrac{7-\sqrt{7}}{6}$ **15)** $\dfrac{3\sqrt{5}}{2}$ **16)** $-15\left(2-\sqrt{5}\right)$ **17)** $3\sqrt[4]{2^3}$ **18)** $3\sqrt[3]{2}\sqrt[4]{2^3}$ **19)** $\dfrac{\sqrt{10}}{5}$

20) $\sqrt{7}\left(\sqrt{7}+\sqrt{6}\right)$