

Racionalització

ESCOLA INTERMUNICIPAL

Nom: 1r BATX_MAT

Grup del Francesc

Racionalitza el denominador de les fraccions següents, i simplifica si s'escau:

1. $\frac{5}{\sqrt{7}} =$ _____

3. $\frac{\sqrt{6}}{\sqrt{11}} =$ _____

5. $\sqrt{\frac{11}{7}} =$ _____

7. $\frac{6\sqrt{7}}{7\sqrt{6}} =$ _____

9. $\frac{24\sqrt{5}}{7\sqrt{12}} =$ _____

11. $\frac{3}{\sqrt[3]{4^2}} =$ _____

13. $\frac{12}{3 + \sqrt{5}} =$ _____

15. $\frac{9}{4 - \sqrt{12}} =$ _____

17. $\frac{8}{\sqrt{5} + \sqrt{12}} =$ _____

19. $\frac{25}{\sqrt{10} - \sqrt{2}} =$ _____

2. $\frac{3}{\sqrt{2}} =$ _____

4. $\frac{\sqrt{8}}{\sqrt{2}} =$ _____

6. $\sqrt{\frac{12}{2}} =$ _____

8. $\frac{2\sqrt{11}}{11\sqrt{2}} =$ _____

10. $\frac{10}{\sqrt[4]{3^2}} =$ _____

12. $\frac{26}{4 + \sqrt{3}} =$ _____

14. $\frac{54}{5 + \sqrt{7}} =$ _____

16. $\frac{6}{3 - \sqrt{7}} =$ _____

18. $\frac{5}{\sqrt{6} + \sqrt{11}} =$ _____

20. $\frac{8}{\sqrt{6} + \sqrt{2}} =$ _____

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Racionalitza el denominador de les fraccions següents, i simplifica si s'escau:

1. $\frac{5}{\sqrt{7}} =$ Sol. $\frac{5\sqrt{7}}{7}$

2. $\frac{3}{\sqrt{2}} =$ Sol. $\frac{3\sqrt{2}}{2}$

3. $\frac{\sqrt{6}}{\sqrt{11}} =$ Sol. $\frac{\sqrt{66}}{11}$

4. $\frac{\sqrt{8}}{\sqrt{2}} =$ Sol. 2

5. $\sqrt{\frac{11}{7}} =$ Sol. $\frac{\sqrt{77}}{7}$

6. $\sqrt{\frac{12}{2}} =$ Sol. $\sqrt{6}$

7. $\frac{6\sqrt{7}}{7\sqrt{6}} =$ Sol. $\frac{\sqrt{42}}{7}$

8. $\frac{2\sqrt{11}}{11\sqrt{2}} =$ Sol. $\frac{\sqrt{22}}{11}$

9. $\frac{24\sqrt{5}}{7\sqrt{12}} =$ Sol. $\frac{4\sqrt{15}}{7}$

10. $\frac{10}{\sqrt[4]{3^2}} =$ Sol. $\frac{10\sqrt{3}}{3}$

11. $\frac{3}{\sqrt[3]{4^2}} =$ Sol. $\frac{3\sqrt[3]{4}}{4}$

12. $\frac{26}{4 + \sqrt{3}} =$ Sol. $2(4 - \sqrt{3})$

13. $\frac{12}{3 + \sqrt{5}} =$ Sol. $3(3 - \sqrt{5})$

14. $\frac{54}{5 + \sqrt{7}} =$ Sol. $3(5 - \sqrt{7})$

15. $\frac{9}{4 - \sqrt{12}} =$ Sol. $\frac{9(2 + \sqrt{3})}{2}$

16. $\frac{6}{3 - \sqrt{7}} =$ Sol. $3(3 + \sqrt{7})$

17. $\frac{8}{\sqrt{5} + \sqrt{12}} =$ Sol. $\frac{-8(\sqrt{5} - \sqrt{12})}{7}$

18. $\frac{5}{\sqrt{6} + \sqrt{11}} =$ Sol. $-(\sqrt{6} - \sqrt{11})$

19. $\frac{25}{\sqrt{10} - \sqrt{2}} =$ Sol. $\frac{25(\sqrt{10} + \sqrt{2})}{8}$

20. $\frac{8}{\sqrt{6} + \sqrt{2}} =$ Sol. $2(\sqrt{6} - \sqrt{2})$