



Raționalizarea numitorilor

Fișă de lucru • Clasa a VII-a

Raționalizați numitorii.

1. $\frac{7}{2\sqrt{13}} =$	2. $\frac{-5}{\sqrt{10}} =$
3. $\frac{\sqrt{5}}{\sqrt{7}} =$	4. $\frac{\sqrt{2}}{3\sqrt{5}} =$
5. $\frac{-\sqrt{5}}{\sqrt{6}} =$	6. $\frac{2}{\sqrt{15}} =$
7. $\frac{-\sqrt{7}}{3\sqrt{3}} =$	8. $\frac{-5}{2\sqrt{3}} =$
9. $\frac{\sqrt{2}}{\sqrt{5}} =$	10. $\frac{\sqrt{5}}{2\sqrt{2}} =$
11. $\frac{3}{\sqrt{13}} =$	12. $\frac{-5}{4\sqrt{5}} =$
13. $\frac{\sqrt{10}}{\sqrt{15}} =$	14. $\frac{3}{4\sqrt{19}} =$
15. $\frac{7\sqrt{3}}{2\sqrt{19}} =$	16. $\frac{-2}{\sqrt{10}} =$
17. $\frac{5\sqrt{3}}{6\sqrt{17}} =$	18. $\frac{-\sqrt{2}}{\sqrt{3}} =$



19. $\frac{4}{\sqrt{7}} =$

20. $\frac{-3}{4\sqrt{2}} =$

21. $\frac{-\sqrt{5}}{3\sqrt{3}} =$

22. $\frac{-\sqrt{8}}{\sqrt{6}} =$

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

24. $\frac{-3}{\sqrt{5}} =$

25. $\frac{3\sqrt{5}}{4\sqrt{13}} =$

26. $\frac{-2}{\sqrt{5}} =$

27. $\frac{\sqrt{63}}{\sqrt{45}} =$

28. $\frac{-3}{4\sqrt{5}} =$

29. $\frac{7}{\sqrt{5}} =$

30. $\frac{-\sqrt{10}}{\sqrt{3}} =$

31. $\frac{-5}{4\sqrt{2}} =$

32. $\frac{\sqrt{7}}{5\sqrt{6}} =$

33. $\frac{-6}{\sqrt{5}} =$

34. $\frac{\sqrt{12}}{\sqrt{20}} =$

35. $\frac{-5}{4\sqrt{3}} =$

36. $\frac{-\sqrt{7}}{2\sqrt{3}} =$



$$37. \frac{\sqrt{3}}{\sqrt{2}} =$$

$$38. \frac{-6}{\sqrt{10}} =$$

$$39. \frac{\sqrt{7}}{4\sqrt{3}} =$$

$$40. \frac{3}{2\sqrt{5}} =$$

$$41. \frac{-3\sqrt{2}}{2\sqrt{3}} =$$

$$42. \frac{\sqrt{28}}{\sqrt{24}} =$$

$$43. \frac{3}{2\sqrt{7}} =$$

$$44. \frac{2}{\sqrt{3} - \sqrt{2}} =$$

$$45. \frac{3}{\sqrt{2}} =$$

$$46. \frac{-3\sqrt{6}}{2\sqrt{2}} =$$

$$47. \frac{-3}{2\sqrt{6}} =$$

$$48. \frac{-2}{\sqrt{3} + \sqrt{2}} =$$

$$49. \frac{6}{\sqrt{17}} =$$

$$50. \frac{-\sqrt{18}}{\sqrt{12}} =$$

$$51. \frac{-6}{\sqrt{3}} =$$

$$52. \frac{-\sqrt{6}}{\sqrt{7}} =$$

$$53. \frac{-5}{2\sqrt{6}} =$$

$$54. \frac{-\sqrt{3}}{2\sqrt{5}} =$$



73. $\frac{6}{3\sqrt{2} - 2\sqrt{3}} =$

74. $\frac{-2\sqrt{3}}{3\sqrt{5}} =$

75. $\frac{\sqrt{7}}{\sqrt{3}} =$

76. $\frac{7}{2\sqrt{15}} =$

77. $\frac{-\sqrt{27}}{\sqrt{18}} =$

78. $\frac{4\sqrt{2}}{3\sqrt{11}} =$

79. $\frac{4}{2 - \sqrt{3}} =$

80. $\frac{2}{\sqrt{11}} =$

81. $\frac{8}{3\sqrt{17}} =$

82. $\frac{-2}{\sqrt{3}} =$

83. $\frac{-3}{2\sqrt{3} + 3} =$

84. $\frac{-\sqrt{2}}{3\sqrt{3}} =$

85. $\frac{-\sqrt{3}}{\sqrt{5}} =$

86. $\frac{4}{2 + \sqrt{3}} =$

87. $\frac{5}{7\sqrt{6}} =$

88. $\frac{\sqrt{15}}{\sqrt{21}} =$

89. $\frac{8}{\sqrt{19}} =$

90. $\frac{-\sqrt{3}}{2\sqrt{2}} =$