

Rational expressions — Roots to 20

Name: _____

Date: _____

Factor the top and the bottom, then cancel.

1 $\frac{x^2 + 5x + 4}{x^2 + 11x + 10}$

2 $\frac{x^2 + 3x - 70}{x^2 + 14x + 40}$

3 $\frac{x^2 - 4x - 192}{x^2 - 23x + 112}$

4 $\frac{x^2 + 5x - 24}{x^2 - 10x - 144}$

5 $\frac{x^2 - 5x + 4}{x^2 - 11x + 10}$

6 $\frac{x^2 - 18x - 40}{x^2 - 12x - 28}$

7 $\frac{x^2 + 4x - 45}{x^2 + x - 30}$

8 $\frac{x^2 + 17x + 52}{x^2 + 25x + 156}$



Rational expressions · Roots to 20 — Answer key

1. $(x^2 + 5x + 4) / (x^2 + 11x + 10) = (x + 4) / (x + 10)$

2. $(x^2 + 3x - 70) / (x^2 + 14x + 40) = (x - 7) / (x + 4)$

3. $(x^2 - 4x - 192) / (x^2 - 23x + 112) = (x + 12) / (x - 7)$

4. $(x^2 + 5x - 24) / (x^2 - 10x - 144) = (x - 3) / (x - 18)$

5. $(x^2 - 5x + 4) / (x^2 - 11x + 10) = (x - 4) / (x - 10)$

6. $(x^2 - 18x - 40) / (x^2 - 12x - 28) = (x - 20) / (x - 14)$

7. $(x^2 + 4x - 45) / (x^2 + x - 30) = (x + 9) / (x + 6)$

8. $(x^2 + 17x + 52) / (x^2 + 25x + 156) = (x + 4) / (x + 12)$

