

Graphing Simple Rational Functions Answers

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Graphing Simple Rational Functions Answers

Graphing Simple Rational Functions Date ____ Period ____ Identify the vertical asymptotes, horizontal asymptote, domain, and range of each. 1) $f(x) = -4x$ Vertical Asym.: $x = 0$ Horiz. Asym.: $y = 0$ Domain: All reals except 0 Range: All reals except 0 2) $f(x) = 4x - 1 + 1$ Vertical Asym.: $x = 1$ Horiz. Asym.: $y = 1$ Domain: All reals except 1

Graphing Simple Rational Functions - Kuta

Graphing Translations of Simple Rational Functions To graph a rational function of the form $y = a - x - h + k$, follow these steps: Step 1 Draw the asymptotes $x = h$ and $y = k$. Step 2 Plot points to the left and to the right of the vertical asymptote. Step 3 Draw the two branches of the hyperbola so that they pass through the plotted points and approach the

8.2 Graphing Rational Functions - Big Ideas Learning

Rewriting Simple Rational Functions in Order to Graph Them When given a rational function Of the form $g(x) = \frac{m}{x - h} + k$ where $m \neq 0$ and h, k , you can carry out the division of $PX + q$ the numerator by the denominator to write the function in the form $g(x) = \frac{a}{x - h} + k$ or $g(x) = \frac{a}{x - h} + k$ in order to graph it. Example 2 Rewrite the function in the form $g(x) = \frac{a}{x - h} + k$ or $g(x) = \frac{a}{x - h} + k$

8.1 Graphing Simple Rational Functions.notebook

All rational functions of the form $y = a + \frac{b}{x - h} + k$ also have graphs that are hyperbolas. The vertical asymptote occurs at the x -value that makes the denominator zero. The horizontal asymptote is the line $y = a + k$. Graphing a Rational Function Graph $y = 2x + \frac{1}{x - 4}$. State the domain and range. SOLUTION Draw the asymptotes. Solve $2x + \frac{1}{x - 4} = 0$ for x

9.2 Graphing Simple Rational Functions

Graphing Rational Functions: An Example (page 2 of 4) Sections: Introduction, Examples, The special case with the "hole" Graph the following: First I'll find any vertical asymptotes, by setting the denominator equal to zero and solving: $x^2 + 1 = 0 \Rightarrow x = \pm i$. Since this equation has no solutions, then the denominator is never zero, and there ...

Graphing Rational Functions: An Example

Graphs of rational functions (old example) Our mission is to provide a free, world-class education to anyone, anywhere. Khan Academy is a 501(c)(3) nonprofit organization.

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9.2 Graphing Simple Rational Functions 9.3 Graphing General Rational Functions 9.4 Multiplying and Dividing Rational Expressions 9.5 Addition, Subtraction, and Complex Fractions 9.6 Solving Rational Equations

Chapter 9 : Rational Equations and Functions : 9.2 ...

Algebra > Graphing Rational Functions Graphing Rational Functions. Review: What Are Rational Functions? X and Y Intercepts. Vertical Asymptotes. Horizontal and Slant (Oblique) Asymptotes. Putting It All Together. Increasing and Decreasing Revisited. Coolmath privacy policy.

Cool math Algebra Help Lessons: Graphing Rational Functions

answers Lesson Graph Simple Rational Functions, continued 15. x A 20 30 40 50 60 70 20 30 0 10 40 50 60 70 Number of people in attendance Average cost per person 0 10 Practice Level B 1. $x^2 + 2x - 3 = 0$; $y^2 - 4 = 0$; $x^2 + 4x - 5 = 0$; $y^2 - 9 = 0$; $x^2 + 6x + 8 = 0$; $y^2 - 16 = 0$; $x^2 + 8x + 15 = 0$; $y^2 - 25 = 0$; $x^2 + 10x + 25 = 0$; $y^2 - 36 = 0$; $x^2 + 12x + 36 = 0$; $y^2 - 49 = 0$; $x^2 + 14x + 49 = 0$; $y^2 - 64 = 0$; $x^2 + 16x + 64 = 0$; $y^2 - 81 = 0$; $x^2 + 18x + 81 = 0$; $y^2 - 100 = 0$; $x^2 + 20x + 100 = 0$; $y^2 - 121 = 0$; $x^2 + 22x + 121 = 0$; $y^2 - 144 = 0$; $x^2 + 24x + 144 = 0$; $y^2 - 169 = 0$; $x^2 + 26x + 169 = 0$; $y^2 - 196 = 0$; $x^2 + 28x + 196 = 0$; $y^2 - 225 = 0$; $x^2 + 30x + 225 = 0$; $y^2 - 256 = 0$; $x^2 + 32x + 256 = 0$; $y^2 - 289 = 0$; $x^2 + 34x + 289 = 0$; $y^2 - 324 = 0$; $x^2 + 36x + 324 = 0$; $y^2 - 361 = 0$; $x^2 + 38x + 361 = 0$; $y^2 - 400 = 0$; $x^2 + 40x + 400 = 0$; $y^2 - 441 = 0$; $x^2 + 42x + 441 = 0$; $y^2 - 484 = 0$; $x^2 + 44x + 484 = 0$; $y^2 - 529 = 0$; $x^2 + 46x + 529 = 0$; $y^2 - 576 = 0$; $x^2 + 48x + 576 = 0$; $y^2 - 625 = 0$; $x^2 + 50x + 625 = 0$; $y^2 - 676 = 0$; $x^2 + 52x + 676 = 0$; $y^2 - 729 = 0$; $x^2 + 54x + 729 = 0$; $y^2 - 784 = 0$; $x^2 + 56x + 784 = 0$; $y^2 - 841 = 0$; $x^2 + 58x + 841 = 0$; $y^2 - 900 = 0$; $x^2 + 60x + 900 = 0$; $y^2 - 961 = 0$; $x^2 + 62x + 961 = 0$; $y^2 - 1024 = 0$; $x^2 + 64x + 1024 = 0$; $y^2 - 1089 = 0$; $x^2 + 66x + 1089 = 0$; $y^2 - 1156 = 0$; $x^2 + 68x + 1156 = 0$; $y^2 - 1225 = 0$; $x^2 + 70x + 1225 = 0$; $y^2 - 1296 = 0$; $x^2 + 72x + 1296 = 0$; $y^2 - 1369 = 0$; $x^2 + 74x + 1369 = 0$; $y^2 - 1444 = 0$; $x^2 + 76x + 1444 = 0$; $y^2 - 1521 = 0$; $x^2 + 78x + 1521 = 0$; $y^2 - 1600 = 0$; $x^2 + 80x + 1600 = 0$; $y^2 - 1681 = 0$; $x^2 + 82x + 1681 = 0$; $y^2 - 1764 = 0$; $x^2 + 84x + 1764 = 0$; $y^2 - 1849 = 0$; $x^2 + 86x + 1849 = 0$; $y^2 - 1936 = 0$; $x^2 + 88x + 1936 = 0$; $y^2 - 2025 = 0$; $x^2 + 90x + 2025 = 0$; $y^2 - 2116 = 0$; $x^2 + 92x + 2116 = 0$; $y^2 - 2209 = 0$; $x^2 + 94x + 2209 = 0$; $y^2 - 2304 = 0$; $x^2 + 96x + 2304 = 0$; $y^2 - 2401 = 0$; $x^2 + 98x + 2401 = 0$; $y^2 - 2500 = 0$; $x^2 + 100x + 2500 = 0$; $y^2 - 2601 = 0$; $x^2 + 102x + 2601 = 0$; $y^2 - 2704 = 0$; $x^2 + 104x + 2704 = 0$; $y^2 - 2809 = 0$; $x^2 + 106x + 2809 = 0$; $y^2 - 2916 = 0$; $x^2 + 108x + 2916 = 0$; $y^2 - 3025 = 0$; $x^2 + 110x + 3025 = 0$; $y^2 - 3136 = 0$; $x^2 + 112x + 3136 = 0$; $y^2 - 3249 = 0$; $x^2 + 114x + 3249 = 0$; $y^2 - 3364 = 0$; $x^2 + 116x + 3364 = 0$; $y^2 - 3481 = 0$; $x^2 + 118x + 3481 = 0$; $y^2 - 3600 = 0$; $x^2 + 120x + 3600 = 0$; $y^2 - 3721 = 0$; $x^2 + 122x + 3721 = 0$; $y^2 - 3844 = 0$; $x^2 + 124x + 3844 = 0$; $y^2 - 3969 = 0$; $x^2 + 126x + 3969 = 0$; $y^2 - 4096 = 0$; $x^2 + 128x + 4096 = 0$; $y^2 - 4225 = 0$; $x^2 + 130x + 4225 = 0$; $y^2 - 4369 = 0$; $x^2 + 132x + 4369 = 0$; $y^2 - 4500 = 0$; $x^2 + 134x + 4500 = 0$; $y^2 - 4641 = 0$; $x^2 + 136x + 4641 = 0$; $y^2 - 4784 = 0$; $x^2 + 138x + 4784 = 0$; $y^2 - 4929 = 0$; $x^2 + 140x + 4929 = 0$; $y^2 - 5076 = 0$; $x^2 + 142x + 5076 = 0$; $y^2 - 5221 = 0$; $x^2 + 144x + 5221 = 0$; $y^2 - 5364 = 0$; $x^2 + 146x + 5364 = 0$; $y^2 - 5509 = 0$; $x^2 + 148x + 5509 = 0$; $y^2 - 5656 = 0$; $x^2 + 150x + 5656 = 0$; $y^2 - 5801 = 0$; $x^2 + 152x + 5801 = 0$; $y^2 - 5944 = 0$; $x^2 + 154x + 5944 = 0$; $y^2 - 6089 = 0$; $x^2 + 156x + 6089 = 0$; $y^2 - 6236 = 0$; $x^2 + 158x + 6236 = 0$; $y^2 - 6381 = 0$; $x^2 + 160x + 6381 = 0$; $y^2 - 6524 = 0$; $x^2 + 162x + 6524 = 0$; $y^2 - 6669 = 0$; $x^2 + 164x + 6669 = 0$; $y^2 - 6816 = 0$; $x^2 + 166x + 6816 = 0$; $y^2 - 6961 = 0$; $x^2 + 168x + 6961 = 0$; $y^2 - 7104 = 0$; $x^2 + 170x + 7104 = 0$; $y^2 - 7241 = 0$; $x^2 + 172x + 7241 = 0$; $y^2 - 7384 = 0$; $x^2 + 174x + 7384 = 0$; $y^2 - 7521 = 0$; $x^2 + 176x + 7521 = 0$; $y^2 - 7664 = 0$; $x^2 + 178x + 7664 = 0$; $y^2 - 7801 = 0$; $x^2 + 180x + 7801 = 0$; $y^2 - 7944 = 0$; $x^2 + 182x + 7944 = 0$; $y^2 - 8081 = 0$; $x^2 + 184x + 8081 = 0$; $y^2 - 8224 = 0$; $x^2 + 186x + 8224 = 0$; $y^2 - 8361 = 0$; $x^2 + 188x + 8361 = 0$; $y^2 - 8504 = 0$; $x^2 + 190x + 8504 = 0$; $y^2 - 8641 = 0$; $x^2 + 192x + 8641 = 0$; $y^2 - 8784 = 0$; $x^2 + 194x + 8784 = 0$; $y^2 - 8921 = 0$; $x^2 + 196x + 8921 = 0$; $y^2 - 9064 = 0$; $x^2 + 198x + 9064 = 0$; $y^2 - 9201 = 0$; $x^2 + 200x + 9201 = 0$; $y^2 - 9344 = 0$; $x^2 + 202x + 9344 = 0$; $y^2 - 9481 = 0$; $x^2 + 204x + 9481 = 0$; $y^2 - 9624 = 0$; $x^2 + 206x + 9624 = 0$; $y^2 - 9761 = 0$; $x^2 + 208x + 9761 = 0$; $y^2 - 9904 = 0$; $x^2 + 210x + 9904 = 0$; $y^2 - 10041 = 0$; $x^2 + 212x + 10041 = 0$; $y^2 - 10184 = 0$; $x^2 + 214x + 10184 = 0$; $y^2 - 10321 = 0$; $x^2 + 216x + 10321 = 0$; $y^2 - 10464 = 0$; $x^2 + 218x + 10464 = 0$; $y^2 - 10601 = 0$; $x^2 + 220x + 10601 = 0$; $y^2 - 10744 = 0$; $x^2 + 222x + 10744 = 0$; $y^2 - 10881 = 0$; $x^2 + 224x + 10881 = 0$; $y^2 - 11024 = 0$; $x^2 + 226x + 11024 = 0$; $y^2 - 11161 = 0$; $x^2 + 228x + 11161 = 0$; $y^2 - 11304 = 0$; $x^2 + 230x + 11304 = 0$; $y^2 - 11441 = 0$; $x^2 + 232x + 11441 = 0$; $y^2 - 11584 = 0$; $x^2 + 234x + 11584 = 0$; $y^2 - 11721 = 0$; $x^2 + 236x + 11721 = 0$; $y^2 - 11864 = 0$; $x^2 + 238x + 11864 = 0$; $y^2 - 11999 = 0$; $x^2 + 240x + 11999 = 0$; $y^2 - 12144 = 0$; $x^2 + 242x + 12144 = 0$; $y^2 - 12281 = 0$; $x^2 + 244x + 12281 = 0$; $y^2 - 12416 = 0$; $x^2 + 246x + 12416 = 0$; $y^2 - 12551 = 0$; $x^2 + 248x + 12551 = 0$; $y^2 - 12684 = 0$; $x^2 + 250x + 12684 = 0$; $y^2 - 12811 = 0$; $x^2 + 252x + 12811 = 0$; $y^2 - 12944 = 0$; $x^2 + 254x + 12944 = 0$; $y^2 - 13081 = 0$; $x^2 + 256x + 13081 = 0$; $y^2 - 13216 = 0$; $x^2 + 258x + 13216 = 0$; $y^2 - 13351 = 0$; $x^2 + 260x + 13351 = 0$; $y^2 - 13484 = 0$; $x^2 + 262x + 13484 = 0$; $y^2 - 13611 = 0$; $x^2 + 264x + 13611 = 0$; $y^2 - 13744 = 0$; $x^2 + 266x + 13744 = 0$; $y^2 - 13881 = 0$; $x^2 + 268x + 13881 = 0$; $y^2 - 14016 = 0$; $x^2 + 270x + 14016 = 0$; $y^2 - 14151 = 0$; $x^2 + 272x + 14151 = 0$; $y^2 - 14284 = 0$; $x^2 + 274x + 14284 = 0$; $y^2 - 14411 = 0$; $x^2 + 276x + 14411 = 0$; $y^2 - 14544 = 0$; $x^2 + 278x + 14544 = 0$; $y^2 - 14681 = 0$; $x^2 + 280x + 14681 = 0$; $y^2 - 14816 = 0$; $x^2 + 282x + 14816 = 0$; $y^2 - 14951 = 0$; $x^2 + 284x + 14951 = 0$; $y^2 - 15084 = 0$; $x^2 + 286x + 15084 = 0$; $y^2 - 15211 = 0$; $x^2 + 288x + 15211 = 0$; $y^2 - 15344 = 0$; $x^2 + 290x + 15344 = 0$; $y^2 - 15481 = 0$; $x^2 + 292x + 15481 = 0$; $y^2 - 15616 = 0$; $x^2 + 294x + 15616 = 0$; $y^2 - 15751 = 0$; $x^2 + 296x + 15751 = 0$; $y^2 - 15884 = 0$; $x^2 + 298x + 15884 = 0$; $y^2 - 16011 = 0$; $x^2 + 300x + 16011 = 0$; $y^2 - 16144 = 0$; $x^2 + 302x + 16144 = 0$; $y^2 - 16281 = 0$; $x^2 + 304x + 16281 = 0$; $y^2 - 16416 = 0$; $x^2 + 306x + 16416 = 0$; $y^2 - 16551 = 0$; $x^2 + 308x + 16551 = 0$; $y^2 - 16684 = 0$; $x^2 + 310x + 16684 = 0$; $y^2 - 16811 = 0$; $x^2 + 312x + 16811 = 0$; $y^2 - 16944 = 0$; $x^2 + 314x + 16944 = 0$; $y^2 - 17081 = 0$; $x^2 + 316x + 17081 = 0$; $y^2 - 17216 = 0$; $x^2 + 318x + 17216 = 0$; $y^2 - 17351 = 0$; $x^2 + 320x + 17351 = 0$; $y^2 - 17484 = 0$; $x^2 + 322x + 17484 = 0$; $y^2 - 17611 = 0$; $x^2 + 324x + 17611 = 0$; $y^2 - 17744 = 0$; $x^2 + 326x + 17744 = 0$; $y^2 - 17881 = 0$; $x^2 + 328x + 17881 = 0$; $y^2 - 18016 = 0$; $x^2 + 330x + 18016 = 0$; $y^2 - 18151 = 0$; $x^2 + 332x + 18151 = 0$; $y^2 - 18284 = 0$; $x^2 + 334x + 18284 = 0$; $y^2 - 18411 = 0$; $x^2 + 336x + 18411 = 0$; $y^2 - 18544 = 0$; $x^2 + 338x + 18544 = 0$; $y^2 - 18681 = 0$; $x^2 + 340x + 18681 = 0$; $y^2 - 18816 = 0$; $x^2 + 342x + 18816 = 0$; $y^2 - 18951 = 0$; $x^2 + 344x + 18951 = 0$; $y^2 - 19084 = 0$; $x^2 + 346x + 19084 = 0$; $y^2 - 19211 = 0$; $x^2 + 348x + 19211 = 0$; $y^2 - 19344 = 0$; $x^2 + 350x + 19344 = 0$; $y^2 - 19481 = 0$; $x^2 + 352x + 19481 = 0$; $y^2 - 19616 = 0$; $x^2 + 354x + 19616 = 0$; $y^2 - 19751 = 0$; $x^2 + 356x + 19751 = 0$; $y^2 - 19884 = 0$; $x^2 + 358x + 19884 = 0$; $y^2 - 20011 = 0$; $x^2 + 360x + 20011 = 0$; $y^2 - 20144 = 0$; $x^2 + 362x + 20144 = 0$; $y^2 - 20281 = 0$; $x^2 + 364x + 20281 = 0$; $y^2 - 20416 = 0$; $x^2 + 366x + 20416 = 0$; $y^2 - 20551 = 0$; $x^2 + 368x + 20551 = 0$; $y^2 - 20684 = 0$; $x^2 + 370x + 20684 = 0$; $y^2 - 20811 = 0$; $x^2 + 372x + 20811 = 0$; $y^2 - 20944 = 0$; $x^2 + 374x + 20944 = 0$; $y^2 - 21081 = 0$; $x^2 + 376x + 21081 = 0$; $y^2 - 21216 = 0$; $x^2 + 378x + 21216 = 0$; $y^2 - 21351 = 0$; $x^2 + 380x + 21351 = 0$; $y^2 - 21484 = 0$; $x^2 + 382x + 21484 = 0$; $y^2 - 21611 = 0$; $x^2 + 384x + 21611 = 0$; $y^2 - 21744 = 0$; $x^2 + 386x + 21744 = 0$; $y^2 - 21881 = 0$; $x^2 + 388x + 21881 = 0$; $y^2 - 22016 = 0$; $x^2 + 390x + 22016 = 0$; $y^2 - 22151 = 0$; $x^2 + 392x + 22151 = 0$; $y^2 - 22284 = 0$; $x^2 + 394x + 22284 = 0$; $y^2 - 22411 = 0$; $x^2 + 396x + 22411 = 0$; $y^2 - 22544 = 0$; $x^2 + 398x + 22544 = 0$; $y^2 - 22681 = 0$; $x^2 + 400x + 22681 = 0$; $y^2 - 22816 = 0$; $x^2 + 402x + 22816 = 0$; $y^2 - 22951 = 0$; $x^2 + 404x + 22951 = 0$; $y^2 - 23084 = 0$; $x^2 + 406x + 23084 = 0$; $y^2 - 23211 = 0$; $x^2 + 408x + 23211 = 0$; $y^2 - 23344 = 0$; $x^2 + 410x + 23344 = 0$; $y^2 - 23481 = 0$; $x^2 + 412x + 23481 = 0$; $y^2 - 23616 = 0$; $x^2 + 414x + 23616 = 0$; $y^2 - 23751 = 0$; $x^2 + 416x + 23751 = 0$; $y^2 - 23884 = 0$; $x^2 + 418x + 23884 = 0$; $y^2 - 24011 = 0$; $x^2 + 420x + 24011 = 0$; $y^2 - 24144 = 0$; $x^2 + 422x + 24144 = 0$; $y^2 - 24281 = 0$; $x^2 + 424x + 24281 = 0$; $y^2 - 24416 = 0$; $x^2 + 426x + 24416 = 0$; $y^2 - 24551 = 0$; $x^2 + 428x + 24551 = 0$; $y^2 - 24684 = 0$; $x^2 + 430x + 24684 = 0$; $y^2 - 24811 = 0$; $x^2 + 432x + 24811 = 0$; $y^2 - 24944 = 0$; $x^2 + 434x + 24944 = 0$; $y^2 - 25081 = 0$; $x^2 + 436x + 25081 = 0$; $y^2 - 25216 = 0$; $x^2 + 438x + 25216 = 0$; $y^2 - 25351 = 0$; $x^2 + 440x + 25351 = 0$; $y^2 - 25484 = 0$; $x^2 + 442x + 25484 = 0$; $y^2 - 25611 = 0$; $x^2 + 444x + 25611 = 0$; $y^2 - 25744 = 0$; $x^2 + 446x + 25744 = 0$; $y^2 - 25881 = 0$; $x^2 + 448x + 25881 = 0$; $y^2 - 26016 = 0$; $x^2 + 450x + 26016 = 0$; $y^2 - 26151 = 0$; $x^2 + 452x + 26151 = 0$; $y^2 - 26284 = 0$; $x^2 + 454x + 26284 = 0$; $y^2 - 26411 = 0$; $x^2 + 456x + 26411 = 0$; $y^2 - 26544 = 0$; $x^2 + 458x + 26544 = 0$; $y^2 - 26681 = 0$; $x^2 + 460x + 26681 = 0$; $y^2 - 26816 = 0$; $x^2 + 462x + 26816 = 0$; $y^2 - 26951 = 0$; $x^2 + 464x + 26951 = 0$; $y^2 - 27084 = 0$; $x^2 + 466x + 27084 = 0$; $y^2 - 27211 = 0$; $x^2 + 468x + 27211 = 0$; $y^2 - 27344 = 0$; $x^2 + 470x + 27344 = 0$; $y^2 - 27481 = 0$; $x^2 + 472x + 27481 = 0$; $y^2 - 27616 = 0$; $x^2 + 474x + 27616 = 0$; $y^2 - 27751 = 0$; $x^2 + 476x + 27751 = 0$; $y^2 - 27884 = 0$; $x^2 + 478x + 27884 = 0$; $y^2 - 28011 = 0$; $x^2 + 480x + 28011 = 0$; $y^2 - 28144 = 0$; $x^2 + 482x + 28144 = 0$; $y^2 - 28281 = 0$; $x^2 + 484x + 28281 = 0$; $y^2 - 28416 = 0$; $x^2 + 486x + 28416 = 0$; $y^2 - 28551 = 0$; $x^2 + 488x + 28551 = 0$; $y^2 - 28684 = 0$; $x^2 + 490x + 28684 = 0$; $y^2 - 28811 = 0$; $x^2 + 492x + 28811 = 0$; $y^2 - 28944 = 0$; $x^2 + 494x + 28944 = 0$; $y^2 - 29081 = 0$; $x^2 + 496x + 29081 = 0$; $y^2 - 29216 = 0$; $x^2 + 498x + 29216 = 0$; $y^2 - 29351 = 0$; $x^2 + 500x + 29351 = 0$; $y^2 - 29484 = 0$; $x^2 + 502x + 29484 = 0$; $y^2 - 29611 = 0$; $x^2 + 504x + 29611 = 0$; $y^2 - 29744 = 0$; $x^2 + 506x + 29744 = 0$; $y^2 - 29881 = 0$; $x^2 + 508x + 29881 = 0$; $y^2 - 30016 = 0$; $x^2 + 510x + 30016 = 0$; $y^2 - 30151 = 0$; <