Task card 1 Rational Functions: Asymptotes & H...

Find the vertical asymptote of $f(x) = \frac{6x - 4}{x - 3}$.

Task card 2 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{x}{-5x - 6}$.

Task card 3 Rational Functions: Asymptotes & H...

Find the vertical asymptote of $f(x) = \frac{2x + 7}{x - 5}$.

Task card 4 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{5x + 4}{2x + 9}$.

Task card 5 Rational Functions: Asymptotes & H...

Find the vertical asymptote of $f(x) = \frac{6x - 9}{x + 4}$.

Task card 6 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{-6x}{x + 4}$.

Task card 7 Rational Functions: Asymptotes & H...

Find the vertical asymptote of $f(x) = \frac{3x - 2}{x - 1}$.

Task card 8 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{3x + 7}{-4x - 8}$.

Task card 9 Rational Functions: Asymptotes & H...

Find the vertical asymptote of $f(x) = \frac{3x + 1}{x + 4}$.

Task card 10 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{x - 4}{x + 1}$.

Task card 11 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{4x + 1}{3x - 5}$.

Task card 12 Rational Functions: Asymptotes & H...

Find the vertical asymptote of $f(x) = \frac{x}{x - 1}$.

Task card 13 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{-x}{x^2 - 7x - 3}$. If there is none, write none.

Task card 14 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{2x}{4x + 9}$.

Task card 15 Rational Functions: Asymptotes & H...

Find the vertical asymptotes of $f(x) = \frac{-4x + 9}{x^2 - 3x - 28}$. Write them as $x = a$ or $x = b$.

Task card 16 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{4x + 9}{-3x + 7}$.

Task card 17 Rational Functions: Asymptotes & H...

Find the hole in the graph of $f(x) = \frac{x^2 - 4x - 12}{x^2 + 6x + 8}$. Write it as a point (x, y).

Task card 18 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{3x - 9}{x^2 + x - 4}$. If there is none, write none.

Task card 19 Rational Functions: Asymptotes & H...

Find the vertical asymptotes of $f(x) = \frac{3x - 2}{x^2 + 7x}$. Write them as x = a or x = b.

Task card 20 Rational Functions: Asymptotes & H...

Find the hole in the graph of $f(x) = \frac{x^2 + 4x - 5}{x^2 + 11x + 30}$. Write it as a point (x, y).

Task card 21 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{4x^2 - 2x}{x - 6}$. If there is none, write none.

Task card 22 Rational Functions: Asymptotes & H...

Find the vertical asymptote of $f(x) = \frac{6x - 9}{x - 1}$.

Task card 23 Rational Functions: Asymptotes & H...

Find the horizontal asymptote of $f(x) = \frac{-2x}{-3x - 7}$.

Task card 24 Rational Functions: Asymptotes & H...

Find the vertical asymptote of $f(x) = \frac{-4x + 5}{x + 7}$.

Rational Functions: Asymptotes & Holes Task Cards

Recording sheet · Grade 11 · Answer each question about the rational function.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Rational Functions: Asymptotes & Holes Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. $x = 3$	**2.** $y = -\frac{1}{5}$	**3.** $x = 5$
4. $y = \frac{5}{2}$	**5.** $x = -4$	**6.** $y = -6$
7. $x = 1$	**8.** $y = -\frac{3}{4}$	**9.** $x = -4$
10. $y = 1$	**11.** $y = \frac{4}{3}$	**12.** $x = 1$
13. $y = 0$	**14.** $y = \frac{1}{2}$	**15.** $x = 7$ or $x = -4$
16. $y = -\frac{4}{3}$	**17.** (-2, -4)	**18.** $y = 0$
19. $x = 0$ or $x = -7$	**20.** (-5, -6)	**21.** none
22. $x = 1$	**23.** $y = \frac{2}{3}$	**24.** $x = -7$