

Half Sheet 2.7b

Writing Rational Equations

Name _____

Write an equation for each function described below. Answers may vary.

1. Has a vertical asymptote at $x = 4$ and a hole at $x = 0$.
2. Has vertical asymptotes at $x = -5$ and a horizontal asymptote at $y = 0$.
3. Has a vertical asymptote at $x = 6$ and a horizontal asymptote at $y = 2$.
4. Has vertical asymptotes at $x = 2$ and $x = -2$ and a horizontal asymptote at $y = 3$.
5. Has a slant asymptote at $y = x + 1$ and a vertical asymptote at $x = 0$.
6. Has a vertical asymptote at $x = 0$, a horizontal asymptote at $y = 0$, and a hole at $x = 2$.

More Questions on the back →

Half Sheet 2.7b

Writing Rational Equations

Name _____

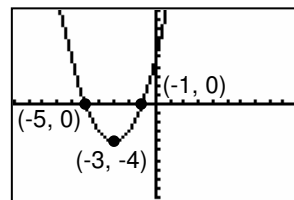
Write an equation for each function described below. Answers may vary.

1. Has a vertical asymptote at $x = 4$ and a hole at $x = 0$.
2. Has vertical asymptotes at $x = -5$ and a horizontal asymptote at $y = 0$.
3. Has a vertical asymptote at $x = 6$ and a horizontal asymptote at $y = 2$.
4. Has vertical asymptotes at $x = 2$ and $x = -2$ and a horizontal asymptote at $y = 3$.
5. Has a slant asymptote at $y = x + 1$ and a vertical asymptote at $x = 0$.
6. Has a vertical asymptote at $x = 0$, a horizontal asymptote at $y = 0$, and a hole at $x = 2$.

More Questions on the back →

7. Has vertical asymptotes at $x = 1$, $x = -1$
and a horizontal asymptote at $y = 2$

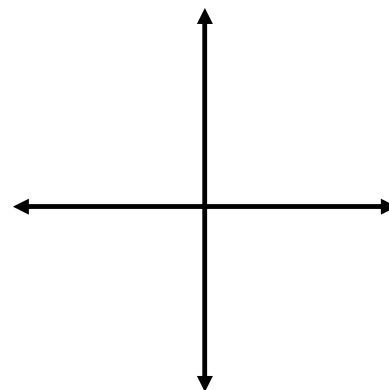
8. Use any method to write an
equation for the given parabola



Without using a calculator, can you still graph a parabola... you should!!

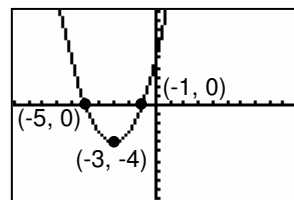
Find the vertex, x intercept(s), y intercept and the symmetry point

9. $y = x^2 - 2x - 15$



7. Has vertical asymptotes at $x = 1$, $x = -1$
and a horizontal asymptote at $y = 2$

8. Use any method to write an
equation for the given parabola



Without using a calculator, can you still graph a parabola... you should!!

Find the vertex, x intercept(s), y intercept and the symmetry point

9. $y = x^2 - 2x - 15$

