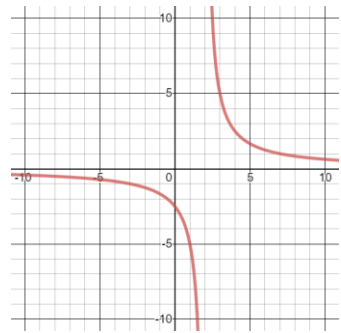
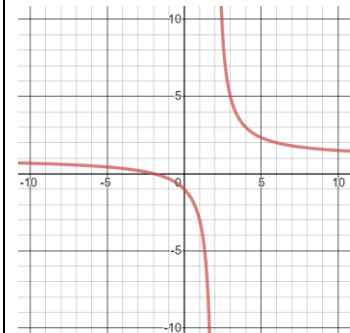
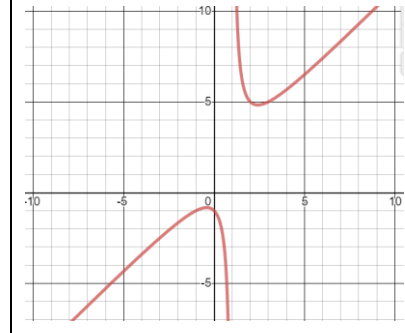
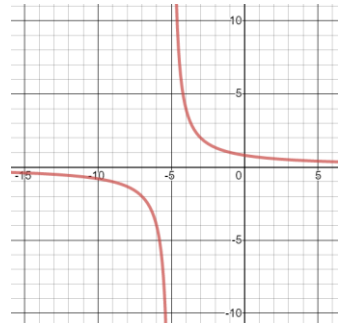
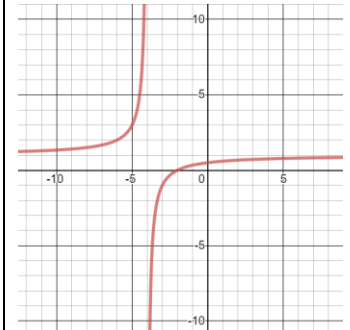
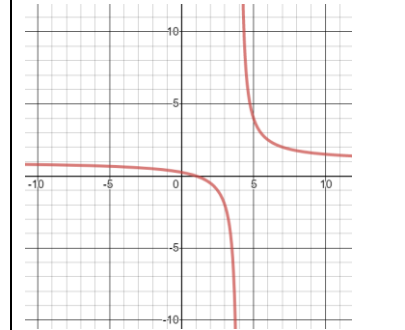


|   |   |
|---|---|
| <p>1. Find the domain of the function. Identify any horizontal and vertical asymptotes.</p> $f(x) = \frac{4}{x^2}$          | <p>2. Find the domain of the function. Identify any horizontal and vertical asymptotes.</p> $f(x) = \frac{8}{(x-2)^3}$        |
| <p>3. Find the domain of the function. Identify any horizontal and vertical asymptotes.</p> $f(x) = \frac{5+x}{5-x}$        | <p>4. Find the domain of the function. Identify any horizontal and vertical asymptotes.</p> $f(x) = \frac{3-7x}{3+2x}$        |
| <p>5. Find the domain of the function. Identify any horizontal and vertical asymptotes.</p> $f(x) = \frac{x^3}{x^2-1}$      | <p>6. Find the domain of the function. Identify any horizontal and vertical asymptotes.</p> $f(x) = \frac{x^2-x-6}{x^2-4x-5}$ |
| <p>7. Find the domain of the function. Identify any horizontal and vertical asymptotes.</p> $f(x) = \frac{3x^2+1}{x^2+x+9}$ | <p>8. Find the domain of the function. Identify any horizontal and vertical asymptotes.</p> $f(x) = \frac{5x^2+x-5}{x^2+1}$   |

Match each rational function with its graph.

|                                  |                                   |                                     |                                     |
|----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|
| <p>9.</p> $f(x) = \frac{4}{x+5}$ | <p>10.</p> $f(x) = \frac{5}{x-2}$ | <p>11.</p> $f(x) = \frac{x-1}{x-4}$ | <p>12.</p> $f(x) = \frac{x+2}{x+4}$ |
|----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|

|   |   |   |
|---|---|---|
| <p>A.</p>  | <p>B.</p>  | <p>C.</p>  |
| <p>D.</p>  | <p>E.</p>  | <p>F.</p>  |