11.

domain: all real numbers except 0; range: all real numbers except 3

12.

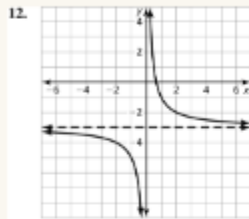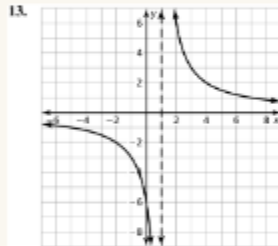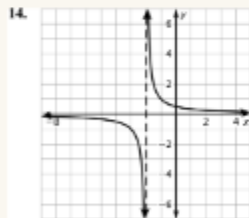domain: all real numbers except 0; range: all real numbers except −3

13.
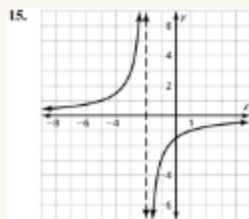

domain: all real numbers except 1; range: all real numbers except 0

14.

domain: all real numbers except −2; range: all real numbers except 0

15.

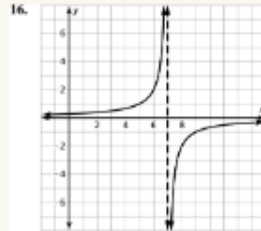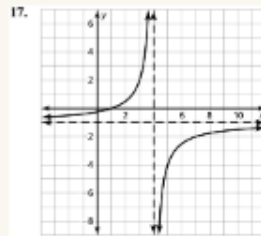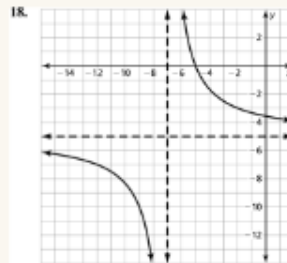

domain: all real numbers except −2; range: all real numbers except 0

16.

domain: all real numbers except 7; range: all real numbers except 0
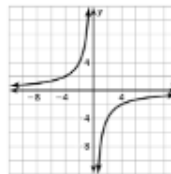
17.

domain: all real numbers except 4; range: all real numbers except −1
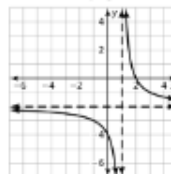
18.

domain: all real numbers except −7; range: all real numbers except −5

19. The graph should lie in the second and fourth quadrants instead of the first and third quadrants;

20. The vertical asymptote should be $x = 1$;

21. A; The asymptotes are $x = 3$ and $y = 1$.

22. C; The asymptotes are $x = -3$ and $y = 1$.

23. B; The asymptotes are $x = 3$ and $y = -1$.

24. D; The asymptotes are $x = -3$ and $y = -1$.