Logarithmic Key Features Practice   Name:

For each function below, find the Vertical Asymptote, x-intercept, and y-intercept. For which ever 3 you want, sketch the graph and give the domain, range, increasing/decreasing interval, and positive/negative interval.

24. $g(x) = \ln(3 - x)$
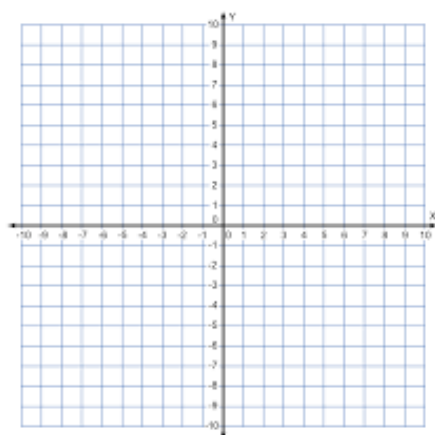
25. $f(x) = \log(3x + 1)$
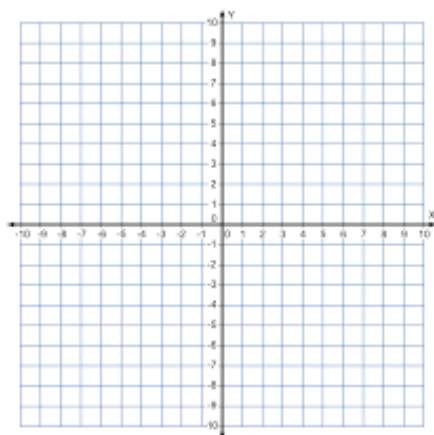
26. $f(x) = 3\log(-x) + 2$

28. $f(x) = \log(x + 2)$
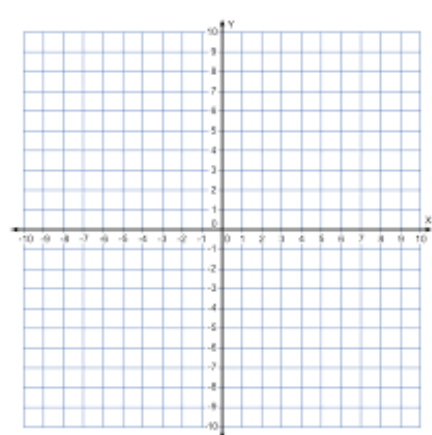
29. $f(x) = \log(x - 5)$

32. $f(x) = \ln(5 - x)$

33. $f(x) = \log(3x + 1)$