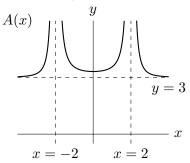
- **1**. [9 points]
 - **a.** [4 points] Let A(x) be the function graphed below with end behavior shown. A(x) has vertical asymptotes at x = -2 and x = 2, and it has a horizontal asymptote at y = 3.



Find the domain and range of $\ln(A(x))$. Give your answer in interval notation, using exact form for any numbers in the endpoints of your interval(s).

The domain of
$$\ln(A(x))$$
 is ______

The range of $\ln(A(x))$ is _____

b. [5 points] The table below has some values of the function B(t).

t	0	1	3	7	8	9	11
B(t)	3	2	6	4	12	3	1

Find all solutions of the equation

$$(B(t))^2 - 7B(t) + 12 = 0$$

that can be determined using only the information in the table above. Circle your final answer(s).