

12. From the graph, $f(-1) = a^{-1} = \frac{1}{5}$, so $a = 5$. Thus $f(x) = 5^x$.

14. From the graph, $f(-3) = a^{-3} = 8$, so $a = \frac{1}{2}$. Thus $f(x) = (\frac{1}{2})^x$.

16. V

18. VI

20. IV

22. $f(x) = 10^{-x}$

The graph of f is obtained by reflecting the graph of $y = 10^x$ about the y -axis.

Domain: $(-\infty, \infty)$

Range: $(0, \infty)$

Asymptote: $y = 0$

