

1. A. $x = -1$

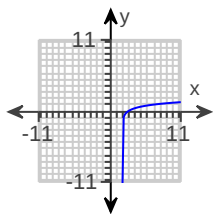
2. $\frac{1}{5}$

3. 96

4. $\frac{1}{u}$

5. A. The slant asymptote is $y = mx + b$ with $m = \underline{1}$ and $b = \underline{5}$

6.



C.

7. A. $\lim_{x \rightarrow 1^-} \frac{x^4 \cos(\pi x)}{\ln(x)} = \underline{\infty}$

8. -2

9. A. $\lim_{x \rightarrow -4} g(x) = \underline{0}$

A. $\lim_{x \rightarrow -2} g(x) = \underline{-3}$

B. $\lim_{x \rightarrow 0} g(x)$ does not exist

A. $\lim_{x \rightarrow -0.8} g(x) = \underline{-3}$

10. $\frac{\pi}{2}, \frac{3\pi}{4}, \frac{3\pi}{2}, \frac{7\pi}{4}$

11. 9

$-\frac{4}{4}$

A. The function has one vertical asymptote, $x = \underline{\frac{1}{2} \ln 4}$.