1. $\lim _{x \rightarrow 0} \frac{\tan (x)}{x}=$
2. $\lim _{x \rightarrow 1} \log _{2}\left(\frac{x^{2}-1}{4 x-4}\right)=$
3. $\lim _{x \rightarrow \pi} e^{\sin (x)}=$
4. State the intervals on which the function $f(x)=\sqrt{\tan ^{-1}(x)}$ is continuous.
5. $\lim _{x \rightarrow 0} \frac{\pi \sin (x)}{4 x}=$
6. $\lim _{x \rightarrow 0} \log _{2}\left(e^{x}+15\right)=$
7. $\lim _{x \rightarrow 4} \cos \left(\frac{3 \pi}{x}\right)=$
8. State the intervals on which the function $f(x)=\frac{x^{2}-1}{x^{2}-x}$ is continuous.
9. $\lim _{x \rightarrow 0} \frac{1-\cos (x)}{x}=$
10. $\lim _{x \rightarrow \pi / 3} 9^{\cos (x)}=$
11. $\lim _{x \rightarrow 2 \pi} \log _{2}(8 \cos (x))=$
12. State the intervals on which the function $f(x)=\frac{\sin (x)}{x}$ is continuous.
13. $\lim _{x \rightarrow 0} \frac{1}{x \csc (x)}=$
14. $\lim _{x \rightarrow 0} \log _{2}\left(\frac{4 \sin (x)}{x}\right)=$
15. $\lim _{x \rightarrow 0} \cos \left(\pi e^{x}\right)=$
16. State the intervals on which the function $f(x)=\frac{1}{e^{x}-1}$ is continuous.
