

Limits Review I

1. $\lim_{x \rightarrow -3} (x^3 - 4x^2 + 2)$

5. $\lim_{x \rightarrow 4} \sqrt{x-4}$

2. $\lim_{x \rightarrow 5} \frac{2x-10}{x^2-4x-5}$

6. $\lim_{x \rightarrow \frac{3\pi}{2}^-} \sec x$

3. $\lim_{x \rightarrow 2^-} \frac{3x}{x^2+6x-16}$

7. $\lim_{x \rightarrow 3} \sqrt[6]{81-x^4}$

4. $\lim_{x \rightarrow 0^+} \frac{|x|}{x}$

8. $\lim_{x \rightarrow \frac{\pi}{2}^+} \tan x$

$$9. \lim_{x \rightarrow \infty} \frac{7x+19}{4x-3}$$

$$14. \lim_{x \rightarrow \infty} \frac{7x^2-3x+2}{-5x^2+1}$$

$$10. \lim_{x \rightarrow 0} e^x \cos x \sqrt{9-x^2}$$

$$15. \lim_{x \rightarrow 3} \lfloor x+1 \rfloor$$

$$11. \lim_{x \rightarrow 0} \frac{\sin 5x}{x}$$

$$16. \lim_{x \rightarrow -\infty} 2^{-x}$$

$$12. \lim_{x \rightarrow \pi} \frac{\cos x}{x}$$

$$17. \lim_{x \rightarrow -1^+} \frac{(x^3+1)(x-2)}{x^3-7x+6}$$

$$13. \lim_{x \rightarrow 0^-} \arccos x$$