

## VECTOR CALCULUS, Week 1 Extra

### 1.2-1.6 Practice Problems

**Ex:** Compute the following limits.

1.  $\lim_{x \rightarrow 0} \cos(x + \sin x)$

2.  $\lim_{x \rightarrow -3} \frac{x^2 - 9}{x^2 + 2x - 3}$

3.  $\lim_{x \rightarrow 0} \frac{(x-1)^3 + 1}{x}$

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