

## Quiz, January 24

1. Determine the vector projection of the vector  $3\vec{i} + \vec{j}$  onto the vector  $\vec{i} + 2\vec{j}$ .
2. Compute the value of  $\lim_{x \rightarrow -3} \frac{x^2 + 3x}{x^2 - x - 12}$ .
3. In the graph below, which of the values  $\lim_{x \rightarrow 0} f(x)$  and  $\lim_{x \rightarrow 2^+} f(x)$  and  $\lim_{x \rightarrow \infty} f(x)$  is the largest?

