

Instructions: Circle your answer. You do not need to justify your answer.

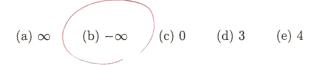
1 (2 points).  $\lim_{\theta \to \infty} \frac{\cos(\theta)}{\theta^2}$ 



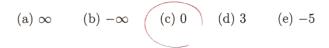
**2** (2 points).  $\lim_{x \to -\infty} 5 + \frac{100}{x} + \frac{(\sin(x^3))^4}{x^2}$ 



3 (2 points).  $\lim_{x \to -\infty} 3x^7 + x^2$ 



4 (2 points).  $\lim_{x \to \infty} \frac{9x^3 + x^2 - 5}{3x^4 + 4x^2}$ 



5 (2 points).  $\lim_{x \to \infty} \frac{\sin(x)}{e^x}$ 

(a) 
$$\infty$$
 (b)  $-\infty$  (c) 0 (d) 1 (e)  $\epsilon$ 

6 (2 points).  $\lim_{x \to -\infty} e^x \cos(x) + 3$ 

