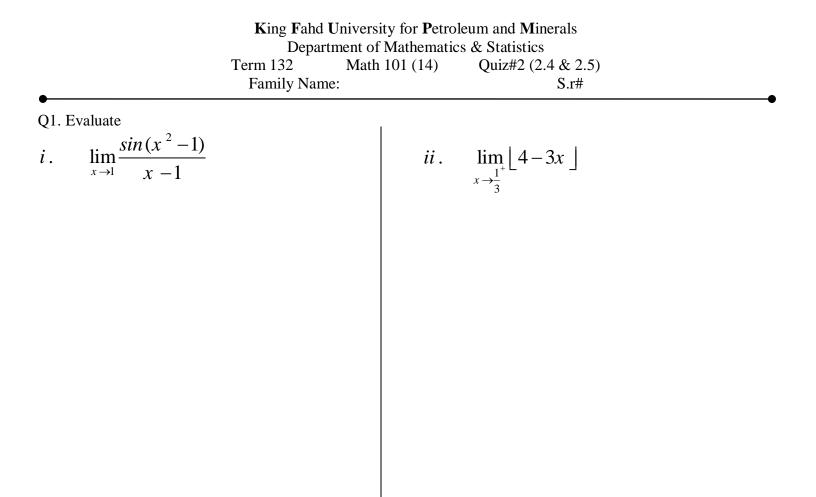
•	King Fahd University for Petr Department of Mathemat Term 132 Math 101 (08) Family Name:		
Q1. Evaluate			•
$i. \qquad \lim_{x\to 2}\frac{\sin(\pi x)}{x}$	<i>ii</i> .	$\lim_{x \to 1^{-}} \left\lfloor \frac{6}{x+2} \right\rfloor$	

Q2. for 
$$f(x) = \begin{cases} \frac{x}{b} & ,x \le -1 \\ -b^2 x & ,x > -1 \end{cases}$$

Find the value(s) of b that makes f(x) continuous at x = -1.



Q2. Use the Intermediate Value Theorem to show that  $f(x) = x^3 - 6$  has a root on [-1,2]