

























(I) "A" Level Work
Define a piecewise function as f(x) where
$f(x) = \begin{cases} x - c, & x < -3\\ 2 - bx, & -3 < x < 1\\ x^3 + bx, & x > 1 \end{cases}$
<ul> <li>(a) Find a relationship between b and c such that f(x) is continuous at -3. Then give a specific numerical example of values for b and c</li> <li>(b) Find value(s) for b such that f(x) is continuous at 1</li> <li>(c) Find values for b and c such that f(x) is continuous on x ɛ R</li> </ul>
I5 Calculus - Santowski 1/25/15