## BIRZEIT UNIVERSITY MATHEMATICS DEPARTMENT

Quiz 4

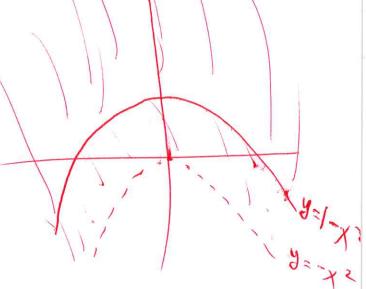
Math2311

Fall 2018/2019

Name......BZU#.....Section#.....

1. Circle the correct answer The domain of  $\cos^{-1}\left(\frac{1}{\sqrt{x^2+y}}\right)$  is

- (a) Closed and bounded
- (b) Closed and unbounded
  - (c) Open and bounded
  - (d) Open and unbounded
  - (e) Neither open nor closed and bounded
  - (f) neither open nor closed and unbounded



2. Find  $\lim_{(x,y)\to(2,1)} \frac{x^2-4y^2}{x^4-16y^4}$ 

= Lim X2-442 (x,y)>(2, (X2+442)