

Holes 
$$f(x) = \frac{x^2 - 5x - 6}{x + 1} = \frac{(x - 6)(x + 1)}{x + 1}$$
 Hole of  $x = -1$   
 $f(x) = \sqrt{x^2 - 4} = g(x) = \sqrt{x + 1} - \frac{1}{4}$   
 $(f \circ g)(x) = \sqrt{(\sqrt{x + 1})^2 - 4} = \sqrt{x - 3}$   
Final solution:  $[3, \infty) = \frac{1}{3}$ 

13,18 = Graph on calculator [-2,2] × [-10,15] Domain: x's L to R Diadu Domain: x's L to R Range: y's Low to thigh 14, 15, 16 = Find domain by hand - Ig nore the given Viewing Window