

**Problem 4**

- (a)  $f(-4) = -2$  and  $g(3) = 4$ .
- (b) For  $x = -2$  and  $x = 2$ .
- (c) The solutions are  $x = -3$  and  $x = 4$ .
- (d) On  $(0, 4)$ .
- (e)  $\text{Dom}(f) = [-4, 4]$  and  $\text{Ran}(f) = [-2, 3]$ .
- (f)  $\text{Dom}(g) = [-4, 3]$  and  $\text{Ran}(g) = [0.5, 4]$ .