

## COUPON CONUNDRUM

You visit your favorite store, and you have two coupons: 20% off of your next purchase and \$10 off of your next purchase. You plan to spend \$100 dollars and hopefully use both coupons. You get to the register, and they will accept both coupons!

- 1) Which one do you think that they will apply first and why?
  
  
  
  
  
  
  
  
  
  
- 2) If they only accept one coupon, how would you determine which one to use if you spent  $x$  dollars? Write two functions that each represent the discount of using one coupon on  $x$  dollars. Let  $f(x)$  represent the 20% off coupon and  $g(x)$  represent the \$10 off coupon.

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