Difference Quotient

Review – Evaluating a Function

Do: given _______, evaluate the following: f(2) =

f(3-x) =

Now try:

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Difference Quotient Formula:		
be able to evaluate/simplify – yo	ou will NOT be asked to memorize differ	ence quotient this semester
ex. determine the difference quot	tient given	
Step 1: evaluate		
Step 2: plug and	into formula	
Step 3: simplify using	and	
GOAL:		

Do: given

fully simplify f(x+h) =

fully simplify f(x+h) - f(x) =

simplify difference quotient s.t. factor of h in denominator cancels out: