FAR BEYOND

MAT122

Difference Quotient



Evaluating a Function - Review

Do: evaluate the following given $f(x) = 2x^2 - 5x + 1$

 $f(2) \qquad \qquad f(3-x)$

f(x+h)

Difference Quotient





from previous slide

get f(x+h)

Goal for difference quotient: Simplify enough to cancel *h* in denominator

Difference Quotient - Do

Do: find difference quotient of $f(x) = -7x^2 - 4x + 2$



$$= -14x - 7h - 4$$