October 7, 2015

9.2

Example #6

$h(x) = x^2 - x$

(a) $h(-2) = (-2)^2 - (-2)$

$= 4 + 2$

$h(-2) = 6$

or

$y = 6$

Oct 7-9:58 AM

$h(x) = x^2 - x \rightarrow (\ )^2 - (\ )$

① $h(t)$ ② $h(t^2)$

$(t)^2 - (t)$ — $(t^2)^2 - (t^2)$

① ②

$t^2 - t - t^4 - t^2$

$-t^4 - t$

Oct 7-10:21 AM

(c) $\dfrac{h(x+k) - h(x)}{k}$

$\dfrac{(x+k)^2 - (x+k) - (x^2 - x)}{k}$

$\dfrac{x^2 + 2xk + k^2 - x - k - x^2 + x}{k}$

$\dfrac{2xk + k^2 - k}{k}$

$\dfrac{k(2x + k - 1)}{k}$ $\quad \frac{k}{k} = 1$

Oct 7-10:32 AM

$g(x) = 3x - 4$

① $g(x) = 3x - 4$

② $g(x+h) = 3(x+h) - 4$

$\dfrac{g(x+h) - g(x)}{h}$

$\dfrac{3(x+h) - 4 - (3x - 4)}{h}$

$\dfrac{3x + 3h - 4 - 3x + 4}{h}$

$\dfrac{3h}{h} = 3$

Oct 7-10:47 AM

9.2 for Tuesday.

#1 — 43 odd

Oct 7-10:50 AM