Evaluating Quadratic Functions

WS #1

A) Complete each function table.

1) $f(x) = 8x^2 + 3x + \frac{3}{2}$

x	$f(x)$
-1	
$-\frac{3}{4}$	
$-\frac{1}{6}$	
0	
$\frac{1}{2}$	

2) $f(x) = -1.2x^2 - 7x$

x	$f(x)$
-6.5	
-2	
2	
3.5	
7.5	

3) $f(x) = \frac{5}{6}x^2 - 5$

x	$f(x)$
-6	
$-\frac{9}{5}$	
0	
$\frac{3}{5}$	
3	

B) Complete the function table using the function rule $f(x) = 3.1x^2 - 9x - 4.5$ and answer the following questions.

x	0	1	4	5	6
$f(x)$					

i) What is the value of $f(x)$, if x is -1?

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ii) What is the value of $f(2)$?

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C) Complete the function table.

$f(x)$	$2x^2 - \frac{6}{7}x + 1$	$-\frac{1}{7}x^2 + x$	$7x^2$
$f\left(-\frac{7}{2}\right)$			
$f(-2)$			
$f\left(-\frac{2}{7}\right)$			