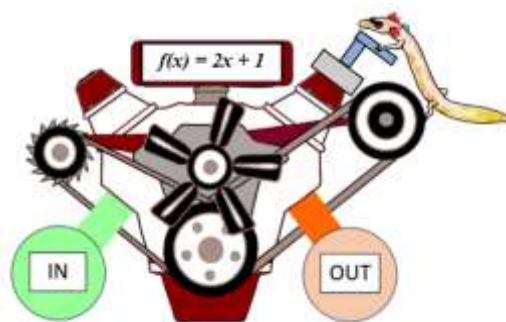




INPUT OUTPUT FUNCTION TABLES SHEET 5A

Find the value of $f(x)$ in each of these function machines.



1) $f(x) = x^2$

x	$f(x)$
3	
8	
2	
0	
-4	
-2	

2) $f(x) = 20 - 3x$

x	$f(x)$
6	
1	
4	
10	
8	
0	

3) $f(x) = x^3$

x	$f(x)$
4	
2	
-1	
0	
-3	
5	

4) $f(x) = (x + 1)(x + 2)$

x	$f(x)$
8	
3	
-1	
5	
0	
-2	

5) $f(x) = 50 - x^2$

x	$f(x)$
4	
2	
-3	
7	
10	
8	

6) $f(x) = (x - 2)(x + 3)$

x	$f(x)$
4	
8	
-2	
12	
7	
-3	

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

In	8	3	-2	5	6
Out					

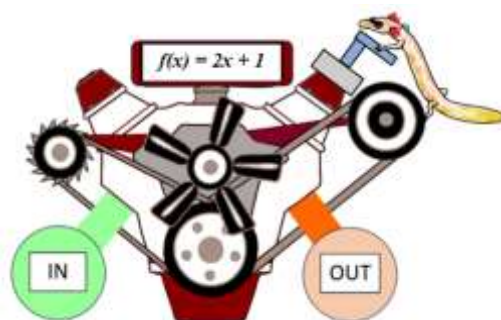
8) $f(x) = \frac{1}{2} x^2$

In	6	3	8	10	-4
Out					



INPUT OUTPUT FUNCTION TABLES SHEET 5A ANSWERS

Find the value of $f(x)$ in each of these function machines.



1) $f(x) = x^2$

x	$f(x)$
3	<u>9</u>
8	<u>64</u>
2	<u>4</u>
0	<u>0</u>
-4	<u>16</u>
-2	<u>4</u>

2) $f(x) = 20 - 3x$

x	$f(x)$
6	<u>2</u>
1	<u>17</u>
4	<u>8</u>
10	<u>-10</u>
8	<u>-4</u>
0	<u>20</u>

3) $f(x) = x^3$

x	$f(x)$
4	<u>64</u>
2	<u>8</u>
-1	<u>-1</u>
0	<u>0</u>
-3	<u>-27</u>
5	<u>125</u>

4) $f(x) = (x + 1)(x + 2)$

x	$f(x)$
8	<u>90</u>
3	<u>20</u>
-1	<u>0</u>
5	<u>42</u>
0	<u>2</u>
-2	<u>0</u>

5) $f(x) = 50 - x^2$

x	$f(x)$
4	<u>34</u>
2	<u>46</u>
-3	<u>41</u>
7	<u>1</u>
10	<u>-50</u>
8	<u>-14</u>

6) $f(x) = (x - 2)(x + 3)$

x	$f(x)$
4	<u>14</u>
8	<u>66</u>
-2	<u>-4</u>
12	<u>150</u>
7	<u>50</u>
-3	<u>0</u>

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

In	8	3	-2	5	6
Out	<u>36</u>	<u>1</u>	<u>16</u>	<u>9</u>	<u>16</u>

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

In	6	3	8	10	-4
Out	<u>18</u>	<u>4½</u>	<u>32</u>	<u>50</u>	<u>8</u>