DATE: _____

TRANSFORMATIONS

Use the numerical representation of $f(x)$ below to match the numerical information in column A with the symbolic representation in column B.

x	–4	–2	0	2	4
$f(x)$	5	1	6	2	7

Column A **Column B**

1.

x	–4	–2	0	2	4
$g(x)$	7	3	8	4	9

2.

x	–2	–1	0	1	2
$h(x)$	5	1	6	2	7

3.

x	–2	0	2	4	6
$m(x)$	5	1	6	2	7

4.

x	–8	–4	0	4	8
$n(x)$	5	1	6	2	7

5.

x	–4	–2	0	2	4
$l(x)$	–5	–1	–6	–2	–7

6.

x	4	2	0	–2	–4
$k(x)$	5	1	6	2	7

7.

x	7	5	3	1	–1
$u(x)$	11	6	10	5	9

a. $f(x-2)$

b. $f\left(\frac{1}{2}x\right)$

c. $f(x)+2$

d. $f(-x)$

e. $f(x-3)+4$

f. $-f(x)$

g. $f(x+2)$

h. $f(2x)$

Use the numerical representation of $f(x)$ below write the numerical information that corresponds to the given symbolic representation.

x	–3	–2	–1	0	1
$f(x)$	–6	0	3	–2	5

1. $g(x) = f(x + 1)$

x					
$g(x)$					

2. $h(x) = 3f(x)$

x					
$h(x)$					

3. $k(x) = f(3x)$

x					
$k(x)$					

4. $m(x) = -f(x)$

x					
$m(x)$					

5. $n(x) = f(-x)$

x					
$n(x)$					

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

x					
$p(x)$					

7. $u(x) = -f(x + 1) + 2$

x					
$u(x)$					