Algebraic Reason Name:		Algebraic Reasoning Name:
Per:		Per:
POINTS:		POINTS:
	Classwork #29 Quiz	Classwork #29 Quiz

Use a table to write a function rule for h(x).

Be sure to include your work when appropriate.

x	f(x) = 3x + 7	g(x) = 8x - 3	h(x) = f(x) - g(x)
1	10	5	5
2	13	13	0
3	16	21	-5
4	19	29	-10
5	22	37	-15
6	25	45	-20

Be sure to include your work when appropriate.

1. Use a table to write a function rule for h(x).

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2. Use a table to write a function rule for h(x).

x	$f(x) = 4x^2 - 6$	g(x) = -2x + 12	h(x) = f(x) - g(x)
-3	30	18	12
-2	10	16	-6
-1	-2	14	-16
0	-6	12	-18
1	-2	10	-12
2	10	8	2

2. Use a table to write a function rule for h(x).

x	$f(x) = 4x^2 - 6$	g(x) = -2x + 12	h(x) = f(x) - g(x)
	_		
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2	10	8	2

Write the simplified form of h(x) if h(x) = f(x) - g(x).

3. 
$$f(x) = 0.5x + 15$$
  
 $g(x) = -3x - 5$ 

Write the simplified form of h(x) if h(x) = f(x) - g(x).

3. 
$$f(x) = 0.5x + 15$$
  
 $g(x) = -3x - 5$ 

4. 
$$f(x) = x^3 - 2x$$
  
 $g(x) = x^2 + 5$ 

**4.** 
$$f(x) = x^3 - 2x$$
  
  $g(x) = x^2 + 5$ 

5. 
$$f(x) = 5x - 3$$
  
 $g(x) = 0.5x^2 - 4$ 

5. 
$$f(x) = 5x - 3$$
  
 $g(x) = 0.5x^2 - 4$