

Algebraic Reasoning

Name: _____

Per: _____

POINTS: _____

Classwork #29 Quiz

Be sure to include your work when appropriate.

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

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

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

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

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

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