

Name: _____

Per: _____

POINTS: _____

Classwork #28 Quiz

Be sure to include your work when appropriate.

1. Use a table to write a function rule for $h(x)$ if $h(x) = f(x) + g(x)$.

x	-1	0	1	2	3	4	5
$f(x)$	-2	-6	-2	10	30	58	94
$g(x)$	3	6	9	12	15	18	21
$h(x)$	1	0	7	22	45	76	115

2. Write the simplified form of $h(x)$ if $h(x) = f(x) + g(x)$.

$$f(x) = x^3 + 5x^2 - 1$$

$$g(x) = x^2 + 2x + 7$$

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Discount City gives a 15% discount on all merchandise on Tuesdays. The sales tax rate is 5%.

3. Write a function, $f(x)$, to represent the discounted price of merchandise, x , on Tuesdays.

4. Write a function, $g(x)$, to represent the amount of sales tax on the discounted merchandise, x .

5. Write a function, $h(x)$, that can be used to calculate the total cost of discounted merchandise, including sales tax, by combining $f(x)$ and $g(x)$.

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