DO NOW

ALGEBRA 1 · 5 MINUTES · START RIGHT AWAY

Lesson 10-6a

Add and Subtract Functions

Name _____ Date _____ Per _____

1 FLUENCY

$f(x) = 3x^2 + 2x - 1$ and $g(x) = x^2 - 5x + 4$. Find each.

$(f + g)(x) =$ ☐

$(f - g)(x) =$ ☐

2 VISUAL MODEL

$f(x) = 2x + 1$ and $g(x) = x^2$. Complete the table.

x	$f(x)$	$g(x)$	$(f + g)(x)$	$(f - g)(x)$
0	1	0		
1	3	1		
3	7	9		

3 APPLICATION

A T-shirt shop's revenue is $R(x) = 25x$ and its cost is $C(x) = 8x + 300$ for x shirts. Write the profit function $P(x) = R(x) - C(x)$ and find $P(50)$.

$P(x) =$ _____ $P(50) = \$$ ☐

WORK

4 REASONING

$f(x) = 4x + 1$, $g(x) = x - 3$. Mia says $(f - g)(x) = 3x - 2$. Is she correct? Explain.

Yes or **No**

_____

_____

*We don't divide our effort, we **multiply** it!*

✎ Show your work ✓ Check your work ★ Try your best

PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW

Preview - the full worksheet and its answer key are at primeworksheet.com