

Let $f(x) = 2x + 5$ and $g(x) = x - 3$ and $k(x) = 4x + 2$. Perform the indicated operation.

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

2. $(f + k)(x)$

3. $(g + k)(x)$

4. $(f - g)(x)$

5. $(g - f)(x)$

6. $(k - g)(x)$

7. $(k + k)(x)$

8. $(f - f)(x)$

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Let $f(x) = 2x$ and $g(x) = x - 3$ Perform the indicated operation.

9. $4[f(x)]$

10. $g(x) + 4$

11. $5[f + g](x)$

12. $(f - g)(x) + 10$

13. $-2[(f \cdot g)(x)]$

14. $3[(g - f)(x)] + 7$

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Answers:

$5x - 1$	$3x + 2$	0	$8x + 4$	$x + 8$	$x + 1$	$-3x - 2$
$3x + 5$	$8x$	$x + 13$	$6x + 7$	$-4x^2 + 12x$	$151x - 15$	$-x - 8$

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$3x + 5$	$8x$	$x + 13$	$6x + 7$	$-4x^2 + 12x$	$151x - 15$	$-x - 8$