

Given  $f(x) = 5x^2 - 9x + 2$   $g(x) = x^2 + 3x - 8$   $h(x) = -2x^2 + 1$  and  $k(x) = 4x - 3$

6. Find  $4f(x) + 3g(x)$

7. Find  $h(x) - f(x)$

8. Find  $h(x) \circ k(x)$

9. Find  $h(3) + g(-4)$

10. Find  $5f(x) + 7g(x)$

11. Find  $f(x) \circ 2k(x)$

12. Find  $h(2) - f(-1)$

13. Find  $3f(x) \circ h(x)$

Given the functions  $f(x) = 3x^2 + 5x - 8$  and  $g(x) = 2x^2 + 4x - 9$

14. Find  $f(x) + g(x)$

15. Find  $g(x) - f(x)$

16. Find  $f(2) + g(2)$

17. Find  $2f(x) - g(x)$