Function Composition Handout

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Instructions.   In the following problems, $f(x) = x^2 - 3x + 4$; $g(x) = \sin(x)$; $h(x) = \frac{1}{3x-2}$

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

2. $f(h(x)) =$

3. $f(f(x)) =$

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

5. $g(h(x)) =$

6. $g(g(x)) =$

7. $h(f(x)) =$

8. $h(g(x)) =$

9. $h(h(x)) =$