

## Functions 4.5

For  $f(x) = x + 2$ ,  $g(x) = x^2 - 2x + 3$ ,  $h(x) = 1 - 5x$ , find

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

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

3.  $f(x) \times h(x)$

4.  $g(x) \cdot h(x)$

5.  $\frac{f(x)}{f(x)}$

6.  $(f \circ g)(x)$

7.  $(h \circ g)(x)$

8.  $(g \circ h)(2)$

9.  $(h \circ f)(4)$

10.  $(h \circ f \circ g)(0)$