

Q Evaluate the indicated operation on the given functions. Determine the Domain and Range of the new function

$$f(x) = 3x + 2$$

$$g(x) = x - 5$$

$$h(x) = \sqrt{x + 2}$$

$$j(x) = \frac{1}{x}$$

$$f(x) \cdot g(x)$$

$$f(x) + g(x)$$

3. $h(x)/g(x)$

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

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

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