

7-1 Function Operations

Name: _____

Time> Start: _____ Finish: _____ Total Time = _____

Use these functions to answer each question. Show your work on a separate piece of paper if necessary.

$$f(x) = 5x - 3$$

$$g(x) = 2x^2 - 1$$

$$h(x) = -x + 5$$

$$p(x) = x^2$$

$$r(x) = x^2 + 4x - 1$$

_____ 1. $(f + h)(x)$

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

_____ 3. $(f \cdot h)(x)$

_____ 4. $(f \cdot p)(x)$

_____ 5. $(h + g)(x)$

_____ 6. $(p - g)(x)$

_____ 7. $(g - r)(x)$

_____ 8. $(r + g)(x)$

_____ 9. $(p \cdot g)(x)$

_____ 10. $(h \cdot g)(x)$

_____ 11. $(r - p)(x)$

_____ 12. $(h - r)(x)$

_____ 13. $(f \cdot r)(x)$

_____ 14. $(p \cdot p)(x)$

_____ 15. $(f \cdot f)(x)$