

Section 6.2: Representations of Functions (Rules and Tables)
pp. 253-255 (#1, 4, 7-18, and 30-32)

- 1) The input variable is x , and the output variable is y .
- 2) in words, as equations, as input-output tables, as mapping diagrams, as graphs
- 3) What output is twice the sum of the input 3 and 4? $2(3 + 4)$
The other functions translate to $2(3) + 4$.
(Technically, “What output is 4 increased by twice the input 3?” is a different function than the other two, but it yields the same outputs.)
- 4) $y = 4x$
- 7) $y = \frac{1}{2}x$
- 8) $y = x + 11$
- 9) $y = x - 3$
- 10) $y = x^3$
- 11) $y = 6x$
- 12) $y = 2x + 1$
- 13) 8
- 14) -35
- 15) -17
- 16) 3.5
- 17) 54
- 18) 3
- 30) -3
- 31) -4
- 32) 36