

Task 1. *Barr 3.4 exercise 2.*

Task 2. *Barr 3.4 exercise 5*

Task 3. *Barr 3.5 exercise 1*

Task 4. *Barr 3.5 exercise 5. By explicit the book means a formula using the symbols $x_1x_2x_3x_4$, $k_1k_2k_3$, the XOR \oplus , and concatenation \parallel symbols. But not using the symbols F or f .*

Task 5. *Barr 4.1 exercise 1*

Task 6. *Barr 4.1 exercise 6*

Task 7. *Barr 4.1 exercise 7*

Task 8. *Barr 4.1 exercise 9. It is helpful to use different colored dice.*

Task 9. *Barr 4.1 exercise 11*

Task 10. *Barr 4.1 exercise 12abcd*

Task 11. *Barr 4.1 exercise 13ab*

Task 12. *Barr 4.1 exercise 16*