

University of California at Berkeley
College of Engineering
Department of Electrical Engineering and Computer Science

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Quiz 10: April 9th

Consider the functions F and G :

$$F(a, b, c, d) = \bar{a}\bar{b}\bar{c}\bar{d} + \bar{a}\bar{b}\bar{c}d + \bar{a}\bar{b}c\bar{d} + \bar{a}b\bar{c}\bar{d} + \bar{a}b\bar{c}d + \bar{a}bc\bar{d} + \bar{a}bcd + abcd$$

$$G(a, b, c, d, e, f) = F(a, b, c, d)(F(a, b, c, d) + abef)$$

1. Express F in as few literals as possible.

2. Express G in as few literals as possible.