



Put the 1's on the K map.

HW 13.1 Finish this: Using the procedure give all minimal forms.
We'll just mark all the prime implicants now:

HW 13.2 Give all minimal forms for the function:

$$f = \sum (1, 5, 7, 8, 9, 10, 11, 14, 15)$$

13.1: **B** $xyzt + xyzt + x'yzt + x'yz't \rightarrow yzt$

C $xy'tz + xy'tz + xy'tz' + xy'tz' \rightarrow xy't$

D $x'yz'tz + x'yz'tz' \rightarrow yz't$

$$f = yzt + xy't + yz't$$

13.2: Prime: A - F

Essential: A, B

1) $f_1 = A + B + C + E$

$$= xz + xy'tz + x'yz't$$

2) $f_2 = A + B + D + E$

$$= xz + xy't + x'yz't + x'yz't'$$

3) $f_3 = A + B + D + F$

$$= xz + xy't + x'yz't + x'yz't'$$