

MATE 6540 assignment 6

17. Let E be an affine hyperplane of \mathbb{R}^m . The space $\mathbb{R}^m \setminus E$ has two arc-connected components.
18. Exercise 2 of Chapter X, p. 135 in Dixmier.
19. Exercise 6 of Chapter X, p. 136 of Dixmier.

Marks: 6 + 9 + 9