- 8. Let  $X = \mathbb{R}P^5/\mathbb{R}P^1$ , and let  $f : X \to X$  be a continuous map that is homotopic to the identity. Show that f must have a fixed point.
- 9. Describe the CW structure of  $X = \mathbb{C}P^2 \times \mathbb{R}P^2$  and use it to compute the homology groups of X.

Preview from Notesale.co.uk Page 2 of 2