

## Linear Algebra Homework Nine

Due Friday November 19, 2010

### Chapter 5.3.

1. 6, a and c
2. 9, a and b
3. 16
4. 19 a

### Page Rank:

1. Determine the google matrix for the network shown in Fig. .
2. Calculate the page rank for the www. Use  $\alpha = 0.85$ .
3. Optional investigations: What happens if you set  $\alpha = 1$ ? Try different initial ranks? Explain what you observe.

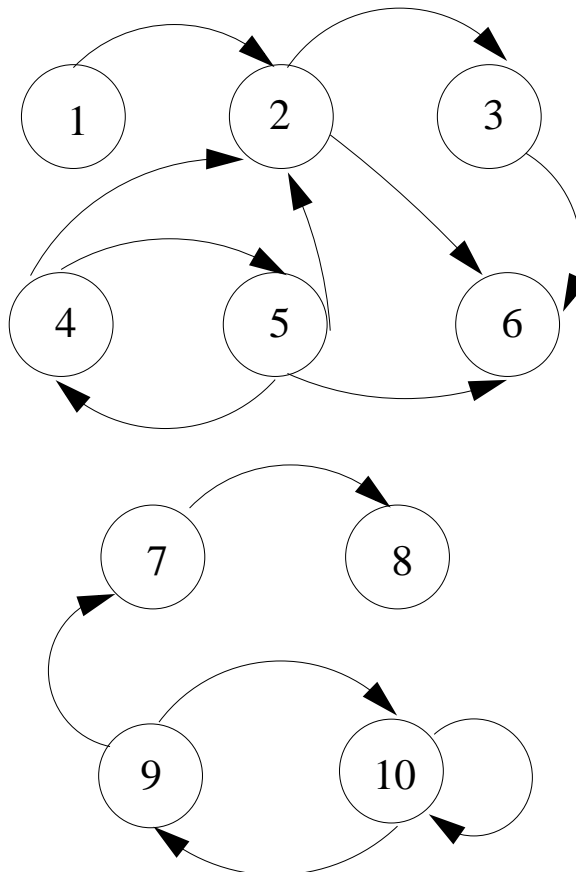


Figure 1: A small portion of the world wide web.