

Turn in starred problems (and only those) on Wednesday 11/05/2008.

Section 23

- 10\*. We proved in class (see also Theorem 23.6) that a finite product of connected sets is connected; this extends the result to an arbitrary product.

Section 24

- 8\*. Note that this problem just asks which of the basic properties of connectedness proved in Section 23 apply to path connectedness. For (a) one can use Theorem 19.6 to get an easy proof.
- 9, 10\*

Section 25

- 1, 2

Section 26

- 1, 2, 4, 5\*