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## **Diophantine approximation, irrationality and transcendence**

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### **10.2 Siegel’s Lemma**

References: [2] Chap. 1 Lemme 1.3.1 and [3] § 1.2.

### **10.3 Liouville’s inequality**

Reference: [2] Chap. 1 § 1.2. See also Proposition 26.

### **10.4 Schwarz’s Lemma**

See (154).

References: [3] § 1.3 and [4] Chap. 7.

### **10.5 Differential equations**

Reference: Lemma 2.2.5 of [3].

### **10.6 Proof of the Schneider–Lang Theorem**

Reference: [2] Chap. 3. See also [1] Chap. III.

## **References**

- [1] S. LANG, *Introduction to transcendental numbers*, Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont., 1966.
- [2] M. WALDSCHMIDT, *Nombres transcendants*, Springer-Verlag, Berlin, 1974. Lecture Notes in Mathematics, Vol. 402.  
<http://www.springerlink.com/content/110312/>

- [3] —, *Transcendence methods*, vol. 52 of Queen's Papers in Pure and Applied Mathematics, Queen's University, Kingston, Ont., 1979.  
<http://www.math.jussieu.fr/miw/articles/pdf/QueensPaper52.pdf>
- [4] —, *Nombres transcendants et groupes algébriques*, Astérisque, (1987), p. 218. With appendices by Daniel Bertrand and Jean-Pierre Serre.