

## LÄSANVISNINGAR CHAPTER 8 NINTH EDITION

### SECTION 8.1

*Övningar:* 3, 5, 9, 13, 15, 17, 19, 22, 26, 28, 31

### SECTION 8.2

The *kernel* of  $T$  kallas på svenska *kärnan* eller nollrummet  $N(T)$  av  $T$ .

The *range* of  $T$  kallas *värderummet*  $V(T)$  av  $T$ .

*Övningar:* 1, 3, 5, 7, 11, 13, 15, 17, 21, 25, 27, 30

### SECTION 8.3

*Övningar:* 1, 3, 5, 7

### SECTION 8.4

*Övningar:* 1, 3, 5, 7, 11

### SECTION 8.5

*Övningar :* 1, 3, 5, 8, 10, 12, 14, 21, 23

### SECTION 8.6

*Övningar :* 2, 5

### Supplementary Exercises

#### 10 (Fredholms alternativ)

Erik Ivar Fredholm (April 7, 1866 - August 17, 1927) was a Swedish mathematician who established the modern theory of integral equations. His 1903 paper in *Acta Mathematica* is considered to be one of the major landmarks in the establishment of operator theory. (Wikipedia)