

## Work Assignment, Tuesday, 28th April 2020

Please complete the following tasks conscientiously and reliably. For some of the exercises you'll have video tutorials.

However, in some cases you'll receive handwritten solutions. You can find everything you need to know on the following website: [www.aleph-null.li](http://www.aleph-null.li)

Today's work assignment consists of the following task.

### **Task 1:**

Solve the exercises **26b and 26c** in the green booklet on p. 4:

In order to solve the aforementioned exercises, you'll need the following formulas for Circles, Sectors and Segments.

Area of a Circle:

$$A = \pi \cdot r^2 = \pi r^2$$

Circumference of a Circle:

$$C = 2 \cdot \pi \cdot r = 2\pi r$$

Area of a Sector with angle alpha:

$$A_{Sector} = \frac{\alpha}{360^\circ} \pi r^2$$

Arc length of a Sector:

$$Arclength = \frac{\alpha}{360^\circ} 2\pi r$$

Area of a Segment

$$A_{Segment} = A_{Sector} - A_{Triangle}$$

You can check the answers in the back of the book. After every exercise watch the video tutorial.

Best of luck – have fun.

Sven Huber