

Work Assignment, Tuesday, 7th 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

Today's work assignment consists of the following task.

Task 1:

Solve the exercises **21 and 22** in the green booklet on p. 4:

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

Task 2:

Now, please watch the explanatory video about Circles, Sectors and Segments.

Please memorize these formulas:

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

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

Task 3:

Solve exercise 26a).

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

Best of luck – have fun.

Sven Huber