**Aufgabenzettel – Winkelgeschwindigkeit**

**Aufgabe 1 - Uhr**

Berechne die Bahn- und Winkelgeschwindigkeit (*einmal in Grad / Sekunde und einmal in Radiant / Sekunde*) des

a) Sekunden-*,*

b) Minuten- und

c) Stundenzeigers

einer Uhr. *Hinweis: Die Zeiger der Uhr sind alle 30 cm lang.*

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**Aufgabe 2 – Erde und Sonne**

Berechne die Bahn- und Winkelgeschwindigkeit der Erde

a) auf ihrer Umlaufbahn um die Sonne (mittlerer Abstand 149,6 Mio. km) und

b) um ihre Drehachse (Radius 6371 km).

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