

Written HW26 – MATH 2510 Spring 2021

**Due by 23 April for timely completion credit**

1. Recall the definition of the Ackermann function from the 15 April. Compute  $\text{Ack}(2, 2)$ .
2. Consider a function defined recursively by the formula

$$\begin{cases} x(0) = 2 \\ x(n+1) = 3x(n) \end{cases}$$

What is  $x(4)$ ? What is  $x(5)$ ? In general, what is the (non-recursive) formula for  $x(n)$ ?