Hands on a clock

This task is about working out distance and speed.

The minute hand of the town hall clock is 3 metres long and the hour hand is 2 metres long.

a) A spider clings to the tip of the **minute** hand for exactly an hour.

How far does the spider travel? (Use π = 3.14) [____] metres

b) Another spider clings to the tip of the **hour** hand for exactly an hour.

How far does the spider travel? [____] metres

c) The clock was put forward one hour for daylight saving.
During this time the spider on the minute hand travelled 20 metres in 1 minute.

What speed is this in kilometres per hour? [____] km/h