

Name _____ ~~No Calculators~~. Present neatly. Score _____.

1.

The minute hand of a clock is 8 cm long, and the hour hand is 5 cm long. How fast is the distance between the tips of the hands changing at 3 o'clock?

Your work:

Name _____ ~~No Calculators~~. Present neatly. Score _____.

1. In a triangle, side x is increasing at 2cm/s , side y is decreasing at 3 cm/s , and the angle θ formed by x and y is decreasing such that the area of the triangle has a constant value of 4cm^2 .
 - a) How fast is the angle changing when $x=4$, $y=4$?
 - b) How fast is the third side changing when $x=4$, $y=4$?

Your work: _____