

- (a) Find u in terms of a .

[4]

- [2]

- (a)** Find the acceleration of the cyclist. [5]

pastpaperpenguin.com

(b) Find AC.

[2]

- [illegible]

- (b) Find the values of t when the particles are the same distance from O . [3]

.....

.....

.....

.....

.....

.....

.....

.....

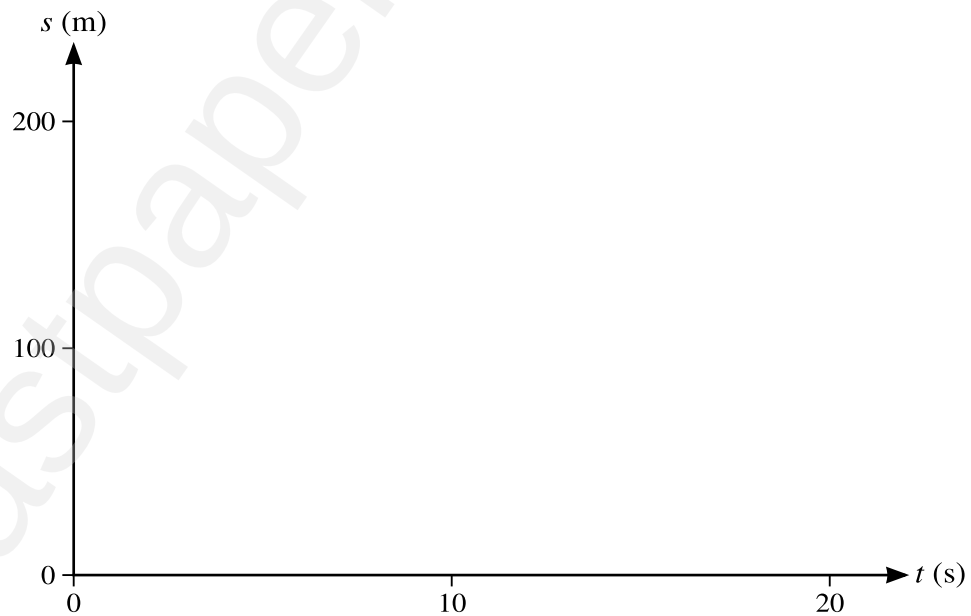
.....

.....

.....

.....

- (c) On the given axes, sketch the displacement-time graphs for both particles, for values of t from 0 to 20. [3]



- pastpaperpenguin.com

- (b) Find the distance travelled by P during the first 10 seconds of its motion. [2]