

1. Which of the following is $\alpha'(s)$ where s is the arc length parameter?

- a) velocity
- b) unit tangent vector T
- c) curvature vector
- d) more than one answer works
- e) none of the above

2. Which of the following is $\alpha''(s)$ where s is the arc length parameter?

- a) acceleration
- b) jerk
- c) curvature vector
- d) unit normal vector N
- e) more than one answer works