

# Spring ACT II

A mass on a spring oscillates back & forth with simple harmonic motion of amplitude  $A$ . A plot of displacement ( $x$ ) versus time ( $t$ ) is shown below. **At what points during its oscillation is the magnitude of the acceleration of the block biggest?**

1. When  $x = +A$  or  $-A$  (i.e. maximum displacement) ← **CORRECT**
2. When  $x = 0$  (i.e. zero displacement)
3. The acceleration of the mass is constant

$$F=ma$$

