

# Practice 3 - Intro to Motion

① Madison went jogging at a constant rate of  $2.6 \text{ m/s}$ . She saw a piece of trash, stopped and kicked it and resumed her speed of  $2.6 \text{ m/s}$ .

(A) Draw a graph showing this.

(B) If it took her 2 seconds to stop, and 3 seconds to resume, what would be the difference in the acceleration?

② Dean and Tahj decide to walk to a coffee shop. The distance between Dean and the coffee shop is 90 meters. Tahj arrives at the coffee shop before Dean; Dean covered 40 meters in 15 seconds. Tahj tells Dean to walk faster so that he can arrive there in 5 seconds. What would be Dean's acceleration if he arrived at the coffee shop at a speed of  $3.9 \text{ m/s}$ ?