$$d = (v_i + v_f) t$$

$$d = \underline{at}^2 + v_i t$$

Betty is drag racing. She hits the green light and speeds along, accelerating at 2.39 m/s<sup>2</sup> for 12.9 seconds. How far was her race?

We know:

What d formula has  $v_{i}$ , a and t?

$$d = \underline{at}^2 + v_i t \qquad v_i t \text{ drops off}$$

$$2 \qquad (why?)$$

Lauren is riding her trike at 1.39 m/s when she starts careening down a hill for 8.39 seconds, reaching a speed of 9.75 m/s. How far did she cruise?

We know:

What d formula has  $v_i$ ,  $v_f$  and t?

Javi's car accelerates at 4.29 m/s<sup>2</sup>. He punches it when the light turns green and floors it 139.4 m down the road. How long did it take to fly down the street?

We know: