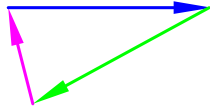


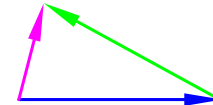
At 20 seconds:

$$V_{\text{relative}} = V_l - V_t = 9.9 \text{ m/s}$$



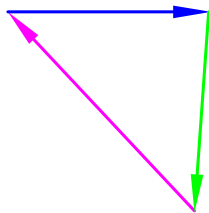
At 30 seconds:

$$V_{\text{relative}} = V_l - V_t = 9.9 \text{ m/s}$$



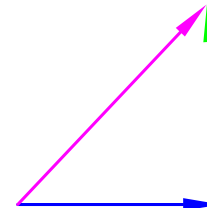
At 10 seconds:

$$V_{\text{relative}} = V_l - V_t = 27.3 \text{ m/s}$$



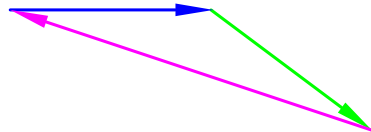
At 40 seconds:

$$V_{\text{relative}} = V_l - V_t = 27.3 \text{ m/s}$$



At 0 seconds:

$$V_{\text{relative}} = V_l - V_t = 37.9 \text{ m/s}$$



At 50 seconds:

$$V_{\text{relative}} = V_l - V_t = 37.9 \text{ m/s}$$

