0.1 Homework 01 - Forces + Newton's Laws

9.

a)

$$a_x(0.7) = \frac{d}{dx}v_x(0.7) = \frac{d}{dx} - 15 + 2t - 4t^3 \Big|_{t=0.7}$$

$$= \left[-3.88m/s^2 \right]$$

$$a_y(0.7) = \frac{d}{dy}v_y(0.7) = \frac{d}{dy}25t + 7t - 9t^2 \Big|_{t=0.7}$$

$$= \left[19.4m/s^2 \right]$$

- 13.
- 17.
- 26.
- 27.
- 41.
- 44.
- 54.