0.1 Homework 01 - Forces + Newton's Laws

9.

$$x''(0.7) = -16.8$$

$$y''(0.7) = -18$$

a)

$$a = \sqrt{16.8^2 + 18^2} = 24.62$$

$$ma = (0.340)(24.62) = 8.37$$
N

b) -133.025°

c)

$$\arctan(\frac{v_y}{v_x})\big|_{t=0.7} = -124.716^{\circ}$$

13.

17.

26.

27.

41.

44.

54.