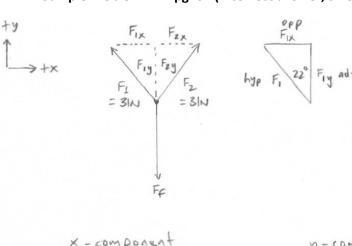
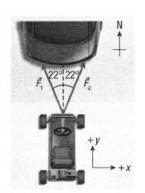
## Errata Nelson Physics 12 Chapter 2

## Section 2.1 - Sample Problem #2 - pg. 67 (incorrect answer, sine and cosines are flipped)





X-component

$$F_{1x} = -F_{1} \cdot \sin \theta$$
  
= -(31).  $\sin 22$   
= -11.61N

$$F_{2x} = F_1 \cdot \sin \theta$$

$$= 31 \cdot \sin 22$$

$$= 11.61 \times 10^{-1}$$

$$\Sigma F_{X} = F_{1X} + F_{2X} + F_{FX}$$

$$\Sigma F_{y} = F_{1y} + F_{2y} + F_{fy}$$

$$0 = -11.61 + 11.61 + F_{fX}$$

$$0 = 28.74 + 28.74 + F_{fy}$$
on the go-cast
$$-57.48 \text{ N (N)} = F_{fy}$$

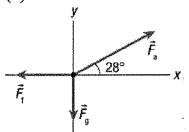
y-component

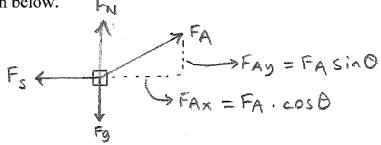
$$2Fy = F_{1}y + F_{2}y + F_{f}y$$
  
 $0 = 28.74 + 28.74 + F_{f}y$   
 $-57.48N[N] = F_{f}y$ 

## Section 2.1 - Review - pg. 69 (incorrect FBD)

**9. Given:**  $\vec{F}_a = 55 \text{ N [forward 28}^{\circ} \text{ up]}; \vec{F}_g = 120 \text{ N}; \Sigma \vec{F} = 0 \text{ N}$ 

(a) The FBD of the sled is shown below.





## Section 2.3 – Tutorial 2 Practice #6 – pg. 82 (incorrect answer)

$$\vec{F}_T = (4.2kg)(9.8\frac{m}{s^2} + 5.302\frac{m}{s^2})$$

$$\vec{F}_T = 63 \text{ N}$$

**Statement:** The tension in the string is 63 N.