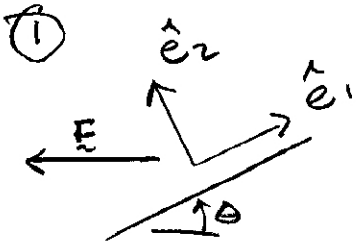
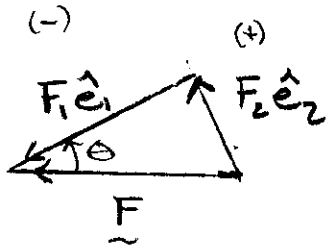
(1)

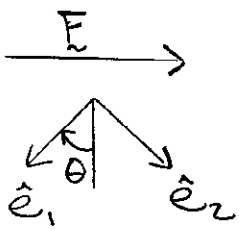


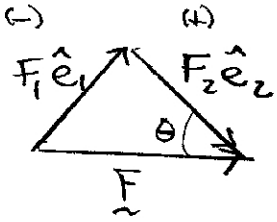


$$\underset{\sim}{F} = -F\cos(\theta)\,\hat{e}_1 + F\sin(\theta)\,\hat{e}_2$$

---

(2)

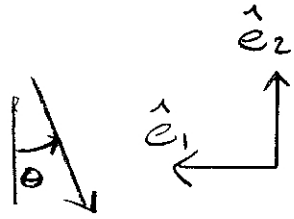


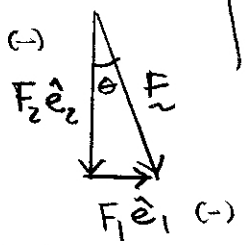


$$\underset{\sim}{F} = -F\sin(\theta)\,\hat{e}_1 + F\cos(\theta)\,\hat{e}_2$$

---

(3)

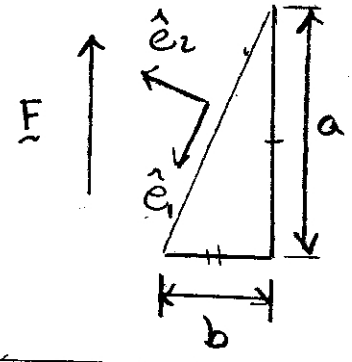


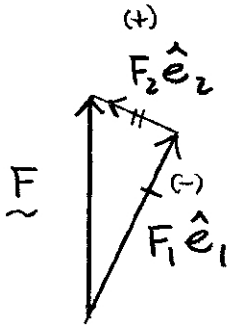


$$\underset{\sim}{F} = -F\sin(\theta)\,\hat{e}_1 - F\cos(\theta)\,\hat{e}_2$$

---

(4)



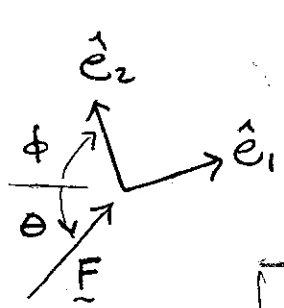


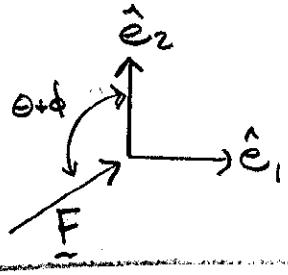
$$\frac{|F_1|}{F} = \frac{a}{\sqrt{a^2+b^2}}\,;\quad \frac{|F_2|}{F} = \frac{b}{\sqrt{a^2+b^2}}$$

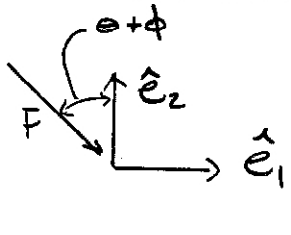
$$\underset{\sim}{F} = \frac{-a}{\sqrt{a^2+b^2}}F\,\hat{e}_1 + \frac{b}{\sqrt{a^2+b^2}}F\,\hat{e}_2$$

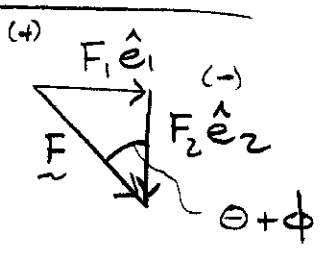
---

(5)









$$\underset{\sim}{F} = F\sin(\theta+\phi)\,\hat{e}_1 - F\cos(\theta+\phi)\,\hat{e}_2$$