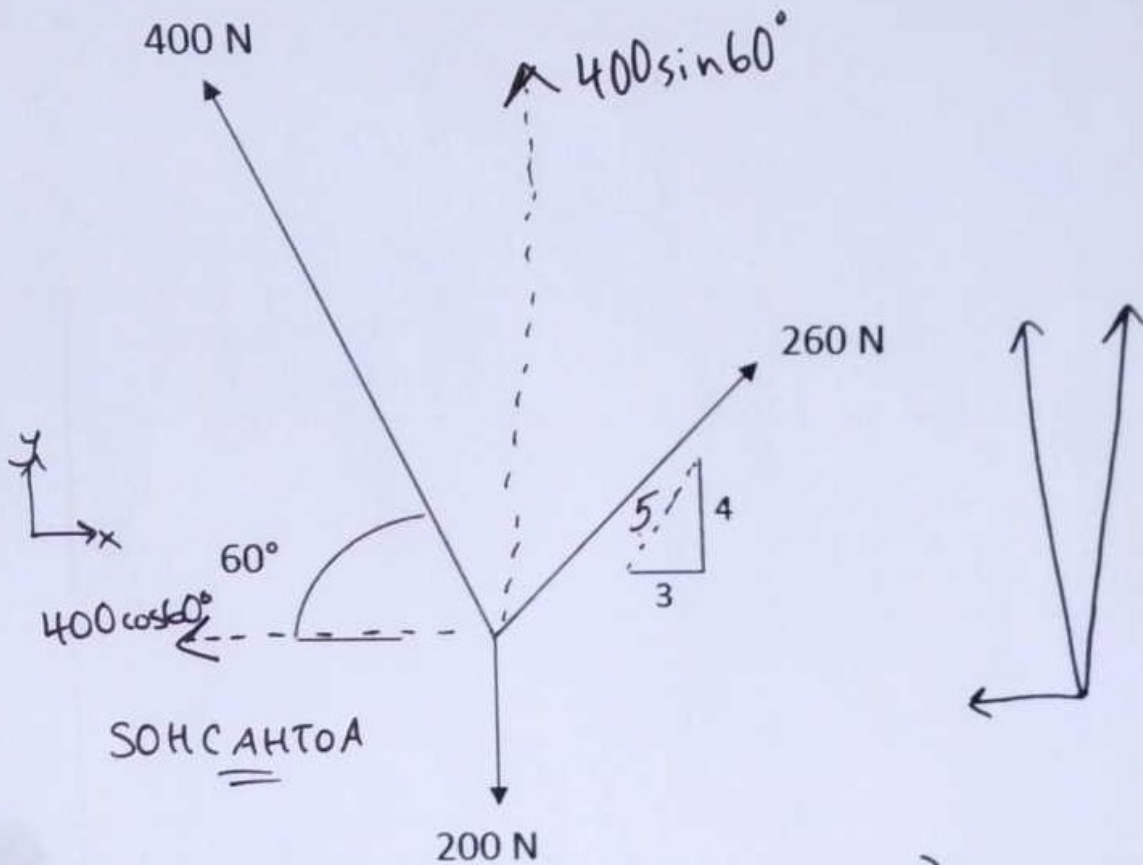


Calculate the magnitude of the resultant of the three forces.



$$F_x = (-400\text{N})(\cos 60^\circ) + (260\text{N})\left(\frac{3}{5}\right) = -44\text{N}$$

$$F_y = (400\text{N})(\sin 60^\circ) + (260\text{N})\left(\frac{4}{5}\right) - 200\text{N} = 354.4\text{N}$$

$$F = \sqrt{F_x^2 + F_y^2} = \sqrt{(-44)^2 + (354.4)^2} = 357.13\text{N}$$

357 N