1) The force between 2 bodies:

F = G*m1*m2/R^2

G - gravitational constant

m1, m2 – masses of bodies

R – distance between them

For body (0, 0) and (0, 2.4)

F1 = G 1.5*2.9/(2.4)^2 = 5.04×10^{-11}H

For body (0, 0) and (3.5, 0)

F1 = G 1.5*4/(3.5)^2 = 3.27×10^{-11}H

$|F1 + F1| = \sqrt{F1^2 + F2^2}$ =6×10^{-11}H

2) The angle respect the positive x axis:

$\tan(\alpha) = \frac{5.04 \times 10^{-11}}{3.27 \times 10^{-11}} = 1.54$

$\alpha = \tan^{-1} 1,54 = 57$