

2

$$45^\circ = 0 \quad \therefore \boxed{F_1 = 0}$$

$$\cos 40^\circ + F_1 \cos 45^\circ = 0$$

$$\cos 40^\circ + 0 = 0$$

$$F_2 \cos 40^\circ$$

$$40^\circ - 200 = 0$$

$$\boxed{F_3 = 238}$$

