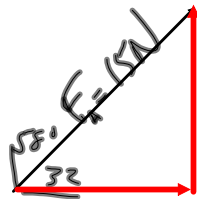


Physics 122 Solutions

p. 467-8



$$\sin 32^\circ = \frac{F_{Ay}}{15N}$$

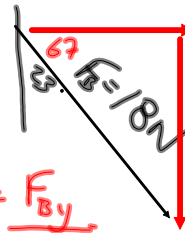
$$F_{Ay} = 15(\sin 32)$$

$$F_{Ay} = 7.9N$$

$$\cos 32 = \frac{F_{Ax}}{15}$$

$$F_{Ax} = 15 \cos 32$$

$$F_{Ax} = 12.7N$$



$$\sin 67^\circ = \frac{F_{By}}{18}$$

$$F_{By} = 18 \sin 67$$

$$F_{By} = -16.6N$$

$$\cos 67^\circ = \frac{F_{Bx}}{18}$$

$$F_{Bx} = 18 \cos 67$$

$$F_{Bx} = 7N$$

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$$F_{x_{net}} = F_{Ax} + F_{Bx}$$

$$= 12.7N + 7N = 19.7N$$

$$F_{y_{net}} = F_{Ay} + F_{By}$$

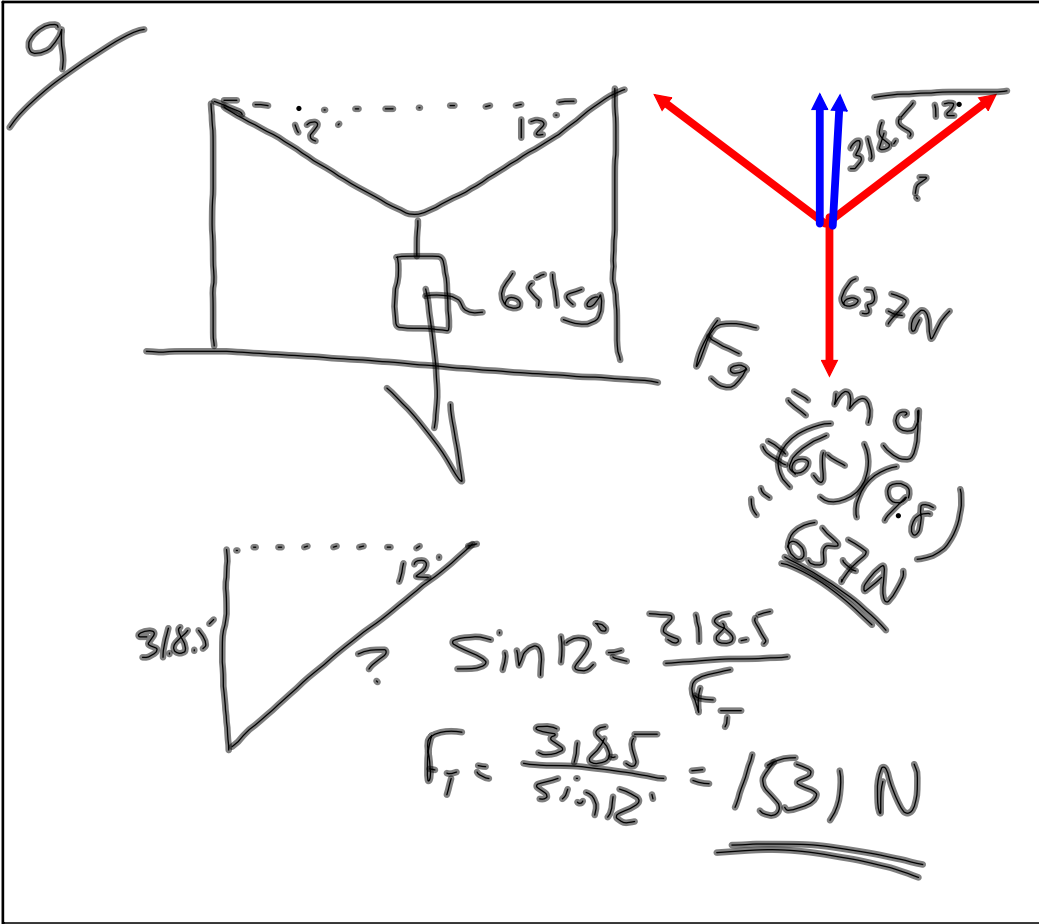
$$= 7.9 + (-16.6) = -8.7N$$

$$F_R = 21.54N (\text{E } 24^\circ \text{ S})$$

$$F_C = 21.54N (\text{W } 24^\circ \text{ N})$$



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