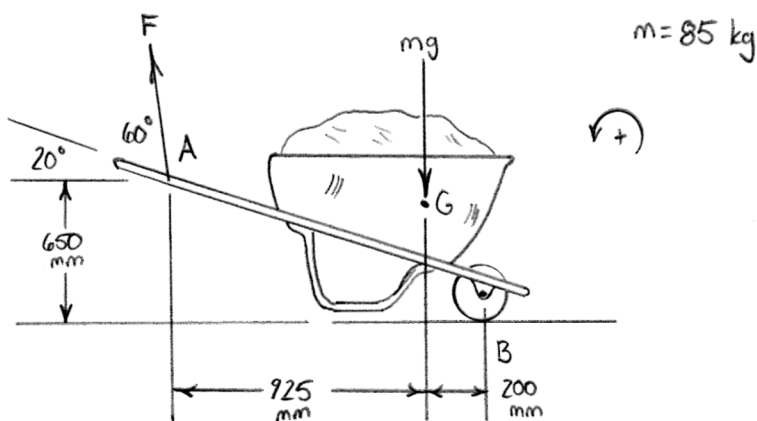


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$$M_B = 0.2(85)(9.81) - F \sin 80^\circ \left( \frac{925 + 200}{1000} \right) + F \cos 80^\circ \left( \frac{650}{1000} \right) = 0$$

$$\underline{F = 167.6 \text{ N}}$$

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