

CS 888 Measuring Stairs
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Location: Columbia Lake Townhouse

Measurements:

rise = 7.5"

run = 10"

angle = 37

Requirements:

* $6" < \text{rise} < 8" \Rightarrow \text{OK}$

* $70 < \text{rise} \times \text{run} < 75 \Rightarrow \text{OK}$ (rise \times run = 75)

* $17 < \text{rise} + \text{run} < 17.5 \Rightarrow \text{OK}$ (rise + run = 17.5)

* $24 < 2 \times \text{rise} + \text{run} < 25 \Rightarrow \text{OK}$ (2rise + run = 25)

Feels:

good!!



Location: St. Jerome's College; outside cafeteria

Measurements:

rise = 6"

run = 10.5"

angle = 30

Requirements:

* $6" < \text{rise} < 8"$ => (sort of) OK (rise = 6")

* $70 < \text{rise} \times \text{run} < 75$ => Not OK (rise x run = 63)

* $17 < \text{rise} + \text{run} < 17.5$ => Not OK (rise + run = 16.5)

* $24 < 2\text{rise} + \text{run} < 25$ => Not OK (2rise + run = 22.5)

Feels:

Too "shallow"; steps are too "small" when coming down;
possibly because the rise is too low.