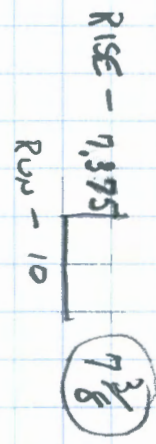


ULL RESIDENCE

2ND FLOOR TO ATTIC STAIRS

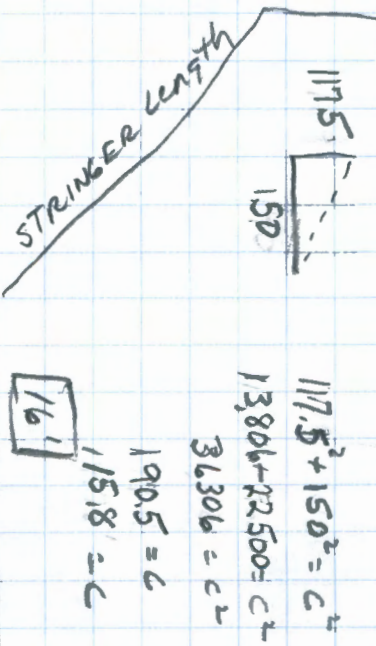


STAIR FORMULA

$17 < r + t < 18$
 $2r + t = 25$
 $t + r = 7.5$
 17.375
 24.75
 73.75

STAIR ANGLE

$\tan \theta = \frac{R}{A}$
 $\tan \theta = \frac{117.5}{150} = .783$
 $\theta = 38.07^\circ$



$117.5^2 + 150^2 = c^2$
 $13806 + 22500 = c^2$
 $36306 = c^2$
 $190.5 = c$
 $15.8' = c$

$\frac{117.5}{16} = 7.34$
 $7 \frac{3}{8} \cdot 16 = 118$

$9' 10 \frac{1}{2}''$
 $117.5''$

150
 $12' 6''$

