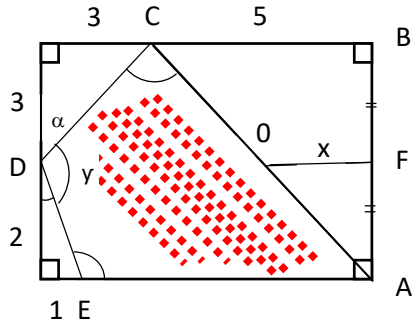
Geometry and trigo



Given Rectangular

$\measuredangle F = 90^0$

BF = FA

(a) S = 8.5 = 40

$S_{ACDE} = 40 - (\frac{5.5}{2} + \frac{3.3}{2} + 1) =$

$= 40 - 18 = 22$

– – – – – – – – – – – – – –

(b) $t_g\alpha = 1$ | $t_g(\alpha + \beta) = \frac{1+\frac{1}{2}}{1-\frac{1}{2}} = 3$

$t_g\beta = \frac{1}{2}$ | $(\alpha + \beta) = 180 - y$

Prove $t_g y = -3$ | $3 = t_g(\alpha + \beta) = t_g(180 - y) =$

$= - t_g y$

$t_g y = -3$

– –

(c) Prove $\measuredangle BOA = 90^0$

$\measuredangle ACD = 90^0$

– –

(d) Prove $t_g(\measuredangle E) = -2$

– –

(e) Prove $t_g\ (y + \measuredangle E) = 1$