

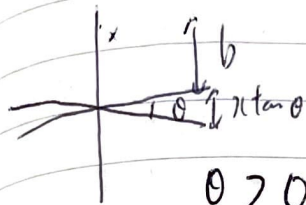
$\Delta x \neq 0$

~~Shortest Dist. Line~~

No.

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there is one more condition on the range ~~of~~ of integration.



$\theta > 0$
(clockwise)

$$b + x \tan \theta \leq 2h \quad b + \frac{1}{2}h + x \tan \theta \leq 2h$$

$$b + x \tan \theta = 2h$$

$$b + \frac{1}{2}h + x \tan \theta = 2h$$

$$x = \frac{2h - b}{\tan \theta} = x'$$

$$x'' = \frac{2h - \frac{1}{2}h - b}{\tan \theta}$$

for $(a + \frac{h}{2}, b)$, if $x' < a + \frac{5}{2}h$, $\alpha_1 = x'$, if $x' < a - \frac{3}{2}h$, $\beta_1 = 0$

for $(a - \frac{h}{2}, b)$, if $x' < a + \frac{3}{2}h$, $\alpha_2 = x'$, if $x' < a - \frac{5}{2}h$, $\beta_2 = 0$

for $(a, b + \frac{h}{2})$, if $x'' < a + 2h$, $\delta_1 = x''$, if $x'' < a - 2h$, $\gamma_1 = 0$

for $(a, b - \frac{h}{2})$, if $x'' < a + 2h$, $\delta_2 = x''$, if $x'' < a - 2h$, $\gamma_2 = 0$

$$|b + x \tan \theta| \leq 2h$$

$$|b + \frac{1}{2}h + x \tan \theta| \leq 2h$$

$$-2h \leq b + x \tan \theta \leq 2h$$

$$-2h \leq b + \frac{1}{2}h + x \tan \theta \leq 2h$$

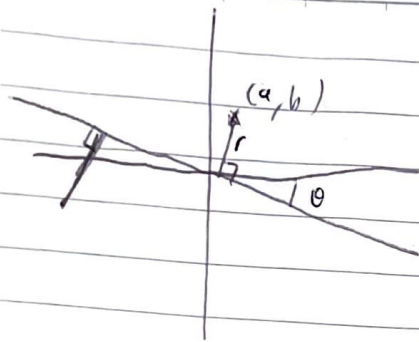
$$\frac{-b-2h}{\tan \theta} \leq x \leq \frac{-b+2h}{\tan \theta}$$

$$\frac{-b-2h-\frac{1}{2}h}{\tan \theta} \leq x \leq \frac{-b+2h-\frac{1}{2}h}{\tan \theta}$$

No.

Date.

12.7.2017

 $0 \times \text{fib} \neq 0$ small angle θ

$$h = \frac{1}{4h} \left(x + 2h + \frac{2h}{\pi} \operatorname{sh} \frac{\pi x}{2h} \right)$$

shortest distance to line:

$$y = -x \tan \theta, \quad \theta \text{ is positive clockwise}$$

$$y - b = \frac{1}{\tan \theta} (x - a)$$

$$-x \tan \theta = \frac{1}{\tan \theta} (x - a) + b$$

$$(1 + \tan^2 \theta) x - a + b \tan \theta = 0$$

$$x = (a - b \tan \theta) \cos^2 \theta$$

$$y = (b \tan \theta - a) \sin \theta \cos \theta$$

$$r = \sqrt{(a - (a - b \tan \theta) \cos^2 \theta)^2 + (b - (b \tan \theta - a) \sin \theta \cos \theta)^2}$$

$$\frac{1}{y} \left(a + \frac{1}{2} h, b \right) =$$