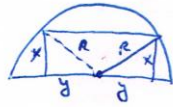


2.49
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$$f = 2(x+2y)$$
$$x^2 + y^2 = R^2$$

$$f = 2x + 4\sqrt{R^2 - x^2}$$

$$f' = 2 - \frac{8x}{2\sqrt{R^2 - x^2}} \rightarrow$$

$\frac{R}{2}$	$\frac{R}{2}$	$\frac{R}{2}$
+	0	-
↗	max	↘

$$4\sqrt{R^2 - x^2} = 8x$$
$$R^2 - x^2 = 4x^2$$
$$x = \frac{R}{\sqrt{5}}$$