

$$\delta a = \pm 1.5\%$$

$$\delta b = \pm 1.5\%$$

$$= \sqrt{a^2 + b^2}$$

$$\frac{\delta c}{c} = \frac{1}{2} \left(\frac{\delta a}{a} \right) (\sqrt{a^2 + b^2})^{1/2} = \frac{1}{2} \sqrt{a^2 + b^2}$$

$$\frac{\delta c}{c} = \frac{1}{2} (2b) (\sqrt{a^2 + b^2})^{1/2} = b \sqrt{a^2 + b^2}$$

$$\frac{c}{a} \cdot \frac{\partial a}{\partial a} + \frac{\delta c}{\delta b} \cdot \frac{\partial b}{\partial b}$$

$$\left[\frac{+ 39}{200} \right] + \frac{b}{\sqrt{a^2 + b^2}} \left[\frac{+ 3b}{200} \right]$$

$$\left[\frac{a^2}{\sqrt{a^2 + b^2}} + \frac{b^2}{\sqrt{a^2 + b^2}} \right]$$

$$\left[\frac{a^2 + b^2}{\sqrt{a^2 + b^2}} \right]$$

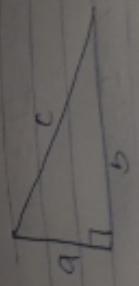
$$\left[(a^2 + b^2)^{1 - 1/2} \right]$$

$$\left[\sqrt{a^2 + b^2} \right]$$

or c

5% of c

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$$A = \frac{1}{2} ab \quad \delta A = \pm 5\% \text{ or } 0.05$$

$$\frac{\delta A}{A} = \frac{\delta b}{b}$$

$$\frac{\delta A}{A} = \frac{\delta a}{a}$$

$$\delta A = \frac{\delta a}{a} \cdot \frac{\delta a}{a} + \frac{\delta A}{\delta b} \cdot \delta b$$

$$= \frac{b}{2} \left[\frac{\pm 1.5}{100} \right] + \frac{a}{2} \left[\frac{\pm 1}{100} \right]$$

$$= \frac{\pm 9b}{2} \left[\frac{\pm 1.5}{100} \right] +$$

$$= \frac{\pm 9b}{2} \left[\frac{1.5 + 1.5}{100} \right]$$

$$+ \frac{9b}{2} \left[\frac{3}{100} \right]$$

$$\pm \frac{9b}{2} \text{ of } 3\%$$

$$= \frac{\pm 9b}{2} \text{ of } 50$$