Względna zmiana danej:

$$\left| \frac{(x+h)-x}{x} \right| = \left| \frac{h}{x} \right|$$

Względna zmiana wyniku:

$$\left| \frac{f(x+h)-f(x)}{f(x)} \right|$$

cond(f(x)) - uwarunkowanie zadania

$$\text{cond}(f(x)) = \frac{\left| \frac{f(x+h)-f(x)}{f(x)} \right|}{\left| \frac{h}{x} \right|} = \left| \frac{f(x+h)-f(x)}{f(x)} \right| \cdot \left| \frac{x}{h} \right| =$$

$$= \left| \frac{f(x+h)-f(x)}{h} \right| \cdot \left| \frac{x}{f(x)} \right| \approx \left| f'(x) \right| \cdot \left| \frac{x}{f(x)} \right| = \left| \frac{x \cdot f'(x)}{f(x)} \right|$$