

Using math functions for trigonometric calculations.  
Triangle:

$$a = 3.000 \tag{1}$$

$$b = 4.000 \tag{2}$$

$$c = 5.000 \tag{3}$$

Calculate angle:

$$\alpha = \operatorname{atan}\left(\frac{b}{a}\right) = \operatorname{atan}\left(\frac{4.000}{3.000}\right) = 0.927 \tag{4}$$

Calculate a with  $\alpha$

$$a_2 = c \cdot \cos(\alpha) = 5.000 \cdot \cos(0.927) = 3.000 \tag{5}$$

Directly compare values:  
*wrong!*

Compare values regarding global *calcPrecision* with 10 decimal places:  
*correct!*