Trigonometry Identities - Pythagorean (Cot^2 and Csc^2) Identity True/False (Greek Letter)

1 Is this pythagorean trig identity correct?

$$\csc^2(\theta) = \cot^2(\theta) + 1$$

A	B
Yes	No

2 Is this pythagorean trig identity correct?

$$\csc^2(\gamma) = \tan^2(\gamma) - 1$$

A	B
Yes	No

3 Is this pythagorean trig identity correct?

$$\cot^2(\beta) = \csc^2(\beta) - 1$$

A	B
Yes	No

4 Is this pythagorean trig identity correct?

$$\csc^2(\alpha) = \tan^2(\alpha) - 1$$

A	B
Yes	No

5 Is this pythagorean trig identity correct?

$$\cot^2(\beta) = 1 - \csc^2(\beta)$$

A	B
Yes	No

6 Is this pythagorean trig identity correct?

$$\cot^2(\gamma) = \sec^2(\gamma) + 1$$

A	B
Yes	No

7 Is this pythagorean trig identity correct?

$$\cot^2(\theta) = \csc^2(\theta) - 1$$

A	B
Yes	No

8 Is this pythagorean trig identity correct?

$$\cot^2(\theta) = 1 - \csc^2(\theta)$$

A	B
Yes	No