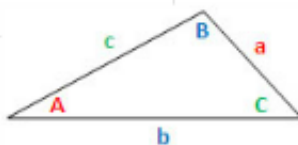


Pythagorean Theorem: $c^2 = a^2 + b^2$



$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$b^2 = a^2 + c^2 - 2ac \cos B$$

$$c^2 = a^2 + b^2 - 2ab \cos C$$

The Problem With Roots

The Pythagorean Theorem: $a^2 + b^2 = c^2$

And now...here is the problem:

2

On the planet **Straitege** there live creatures called **Straits**. **Straits** are capable of doing only two things: drawing lines of length 1 unit and making right angles. Now suppose n is a positive integer. Is it possible for a **Strait** to make a line of length \sqrt{n} ? As