

SOH-CAH-TOA

$$\sin \theta = \frac{\text{opposite}}{\text{hyp.}} \quad \cos \theta = \frac{\text{adjacent}}{\text{hyp.}}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

only be used if right triangle.

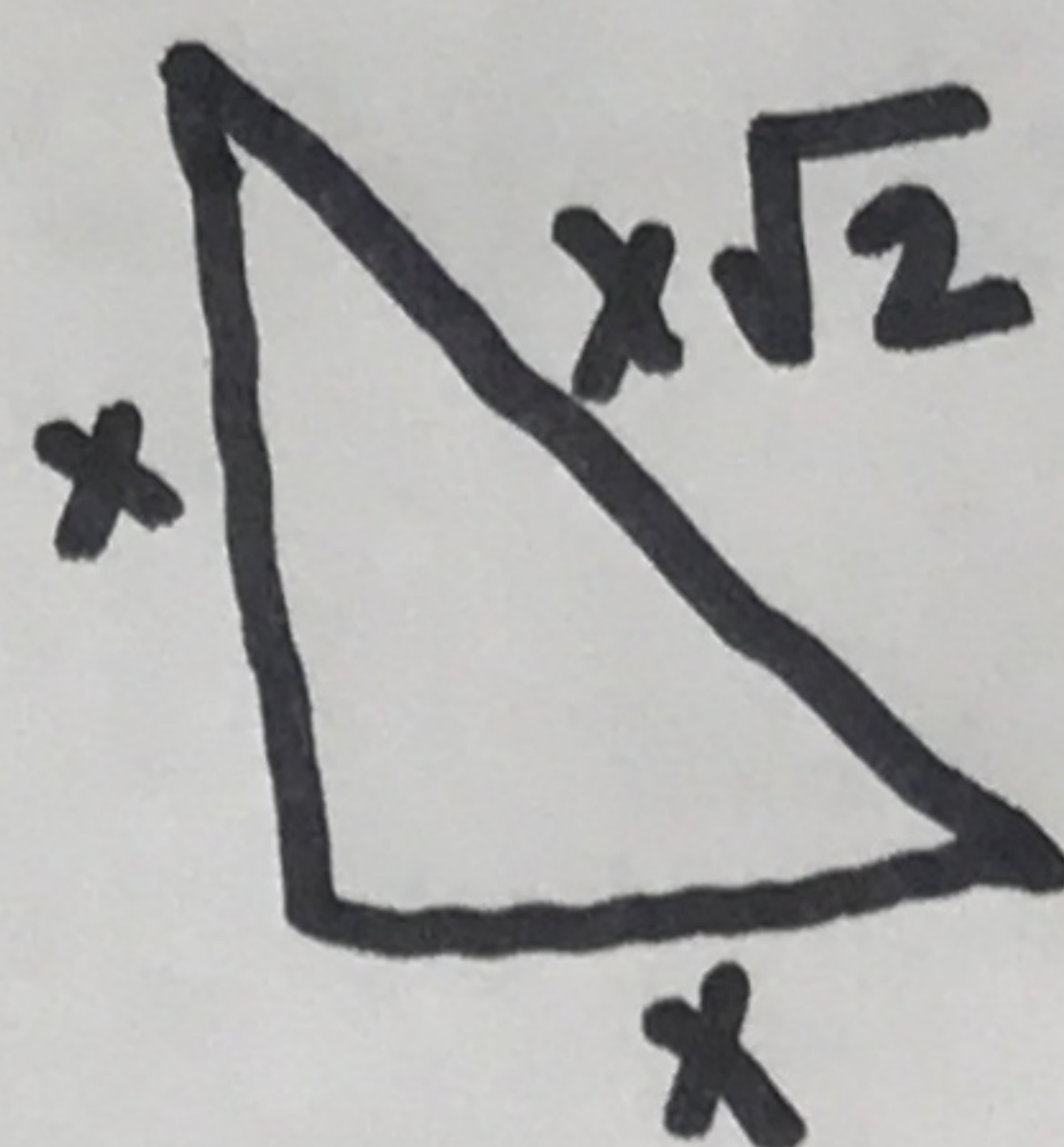
Special Triangles!

isosceles right triangle



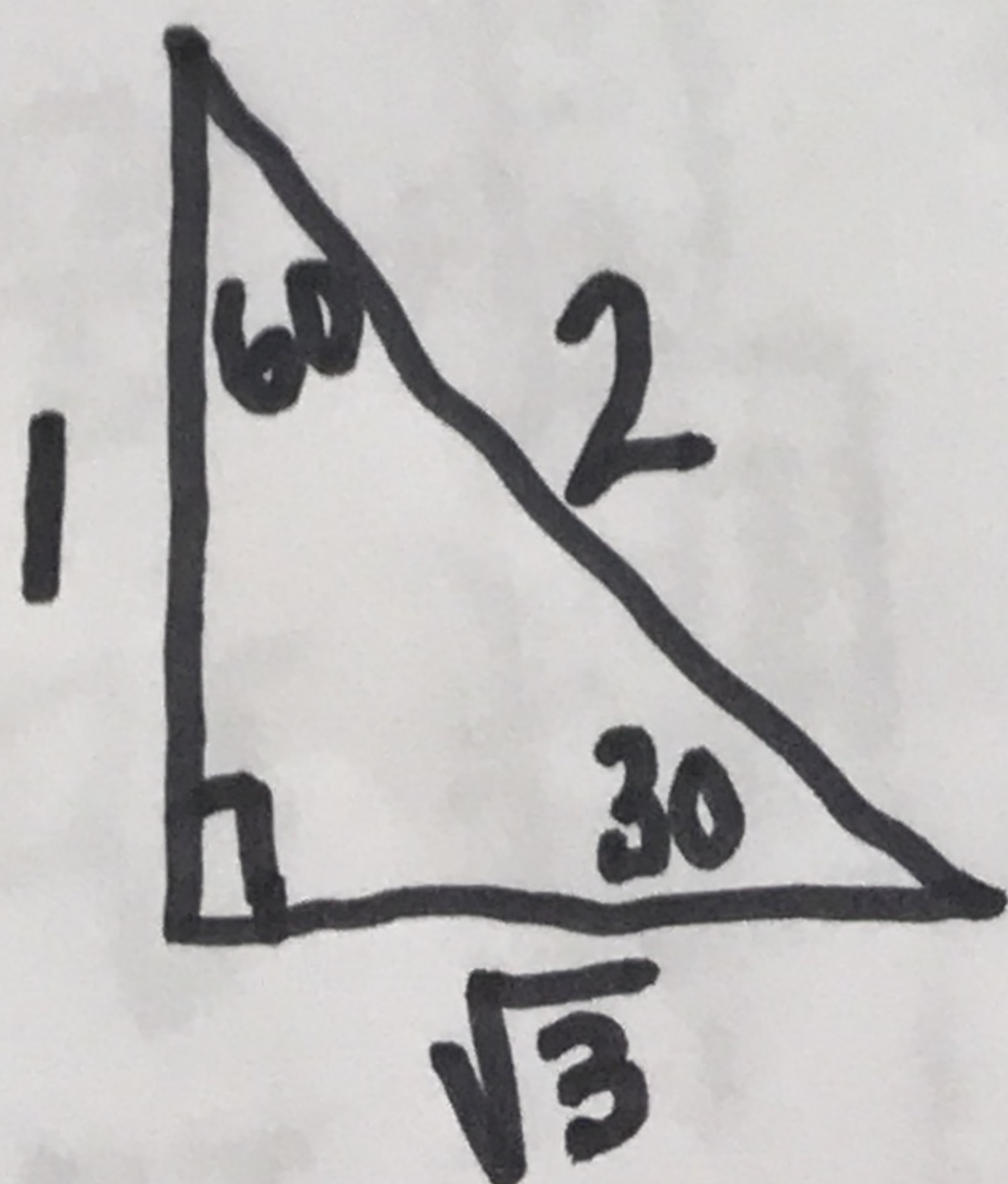
$$45^\circ : 45^\circ : 90^\circ$$

ratio:



$$1 : 1 : \sqrt{2}$$

30-60-90 triangle



$$1 : \sqrt{3} : 2$$

$$30 : 60 : 90$$