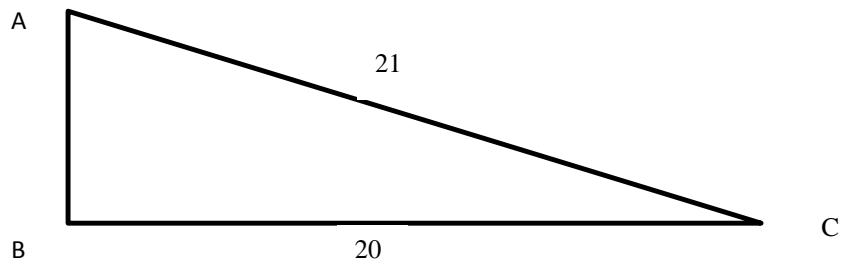Given triangle ABC and side a = 20; side b = 21. Find the measurement of angle A if angle B is a right angle

By definition:

$$The\ sine\ of\ the\ angle\ = \frac{the\ length\ of\ the\ opposite\ side}{the\ length\ of\ the\ hypotenuse}$$

Therefore:

$$\sin(A) = \frac{20}{21}$$

And:

$$A = \arcsin\left(\frac{20}{21}\right) = 72.2$$

Answer: $A = 72.2\ degrees$