







Another way to write the formula for the Law of Cosines that will solve for the angle measure is:

cos(C) = a2 + b2 − c2

 **2ab**

cos(A) = b2 + c2 − a2

 **2bc**

cos(B) = c2 + a2 − b2

 **2ca**

**The previous problem would fit into that formula as follows:**

**Cos-1 B = c2 + a2 – b2**

 2ca

Our number substitution gives us **Cos-1 B = 102 + 62 – 52**

 2•10•6

**Cos-1 B = 100 + 36 – 25**

 120

**Cos-1 B = 111**

 120

Angle B = 22.33 or 22.3°