**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Similarity, Right Triangles, and Trigonometry (G.SRT.7)**

The triangle below is a right triangle.



 Select all the equations that are true.

|  |  |  |
| --- | --- | --- |
| Statement | Yes or No | Explain your thinking |
| 1. $\cos(β=\frac{a}{\sqrt{a^{2}+b^{2}}})$
 |  |  |
| 1. $\cos(β=\frac{b}{\sqrt{a^{2}+b^{2}}})$
 |  |  |
| 1. $\cos(β)=\sin((90°-α))$
 |  |  |
| 1. $\cos(β)=\sin(α)$

  |  |  |
| 1. $\cos(β)=\frac{1}{\sin(α)}$
 |  |  |
| 1. $\cos(β)=\sin((α-90°))$
 |  |  |

Source:

<https://assessmentresource.org/wp-content/uploads/2019/07/High_School_Math_Fall_Block_Item_Set.pdf>

HS Math 2016 – Fall Block, Item M40159