**SINE LAW**

The sine law is very useful for solving triangles:

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| **Solving for a Side**$$\frac{a}{\sin(A)}=\frac{b}{\sin(B)}=\frac{c}{\sin(C)}$$ | **Solving for an Angle**$$\frac{\sin(A)}{a}=\frac{\sin(B)}{b}=\frac{\sin(C)}{c}$$ |
| **It works for any triangle:**  a, b, and c are sides.triangle A, B, and C are angle.  |

**When Do We Use It?**

The Sine Law is used to solve any triangle when given:

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| **Case 1)****ANGLE - ANGLE - SIDE** | **Case 2)****SIDE - SIDE - OPPOSITE ANGLE OF ONE OF THESE SIDES** |
|  |  |

**Ex1**: Solve for k.



**Ex2.** Find the value of P.



**Ex3**. Determine the value of side c. Round to 1 decimal place. (ANS: 5.5)



**Ex4**. Determine the value of B. Round to the nearest angle. (ANS: 57˚)

