

$$DD = \text{Degree} + \frac{\text{Minute}}{60} + \frac{\text{Seconds}}{3600}$$

$$38^{\circ} 42' 18''$$

$$38 + \frac{42}{60} + \frac{18}{3600}$$

$$38 + 0.7 + 0.005 = 38.705^{\circ}$$

$$DMS = \text{Degrees}^{\circ} \text{ Decimal} \times 60' \text{ Remain Decimal} \times 60''$$

$$52.20833^{\circ}$$

$$\text{Degrees} = 52^{\circ}$$

$$0.20833 \times 60 = 12.4998 \Rightarrow \text{Minutes} = 12$$

$$0.4998 \times 60 = 29.98 \Rightarrow \text{Seconds} = 30$$

$$52^{\circ} 12' 30''$$

$$30^{\circ} 15' 30'' \Rightarrow 30.258^{\circ}$$

$$45.375^{\circ} \Rightarrow 45^{\circ} 22' 30''$$