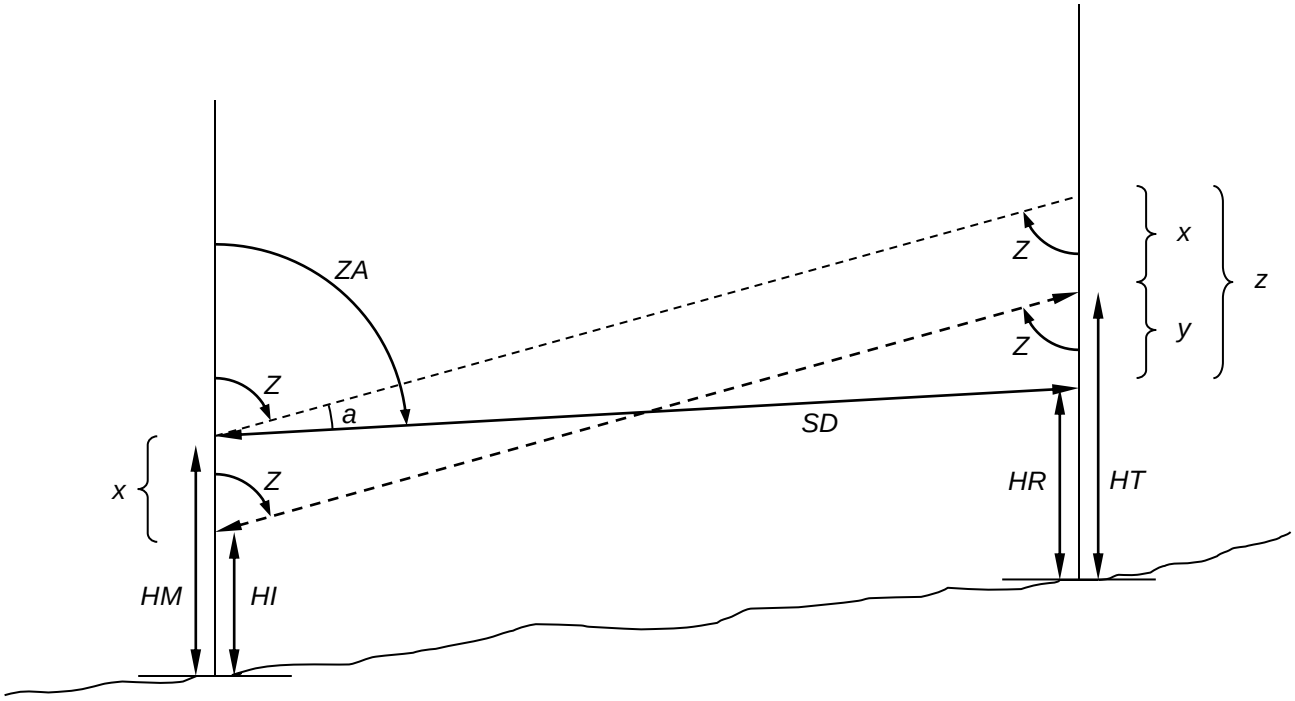

HT	=	**T**arget Height		
HR	=	**R**eflector Height		
HI	=	**I**nstrument Height	(Theodolite, etc.)	
HM	=	**M**eter Height	(Distance Meter)	
SD	=	Slope Distance		
Z	=	Zenith Angle (measured)		
ZA	=	Zenith Angle (corrected)		
x	=	$HM - HI$		
y	=	$HT - HR$		
TRIM = z	=	$x + y$ =	$(HT - HR) + (HM - HI)$	
		or	$(HT - HR) - (HI - HM)$	

$$\frac{\sin(a)}{TRIM} = \frac{\sin(Z)}{SD} \quad \text{therefore} \quad a = \operatorname{asin}\left[\frac{[(HT - HR) - (HI - HM)] \cdot \sin(Z)}{SD}\right]$$

$$ZA = Z + a = Z + \operatorname{asin}\left[\frac{TRIM \cdot \sin(Z)}{SD}\right]$$