

$X1(a, s, t, \theta);$

$$s \left( \frac{\tan \left( -\arctan \left( \frac{(1 - \cos(t)) \sin(t)}{-(1 - \cos(t)) \cos(t) + a} \right) + \theta \right) a}{\tan \left( -\arctan \left( \frac{\sin(t)}{\cos(t)} \right) + \theta \right) + \tan \left( -\arctan \left( \frac{(1 - \cos(t)) \sin(t)}{-(1 - \cos(t)) \cos(t) + a} \right) + \theta \right)} - a \right) + a$$