16.

(a)
$$\frac{dx}{dt} = 2 \sec^2 t$$
 $\frac{dx}{dt} = 2 \sec^2 t$
 $\frac{dx}{dt} = 4 \sec^2 t \sec^2 t$
 $\frac{dx}{dt} = 4 \sec^2 t \sec^2 t$
 $\frac{dx}{dt} = 4 \sec^2 t \tan^2 t$
 $\frac{dx}{dt} = 2 \tan^2 t \sec^2 t \tan^2 t$
 $\frac{dx}{dt} = 2 \tan^2 t \sec^2 t \tan^2 t$
 $\frac{dx}{dt} = 2 \tan^2 t \sec^2 t \tan^2 t$
 $\frac{dx}{dt} = 2 \tan^2 t \sec^2 t \tan^2 t$
 $\frac{dx}{dt} = 2 \tan^2 t \tan^2 t \cot^2 t \cot^$