

Parametric Equations

To set up the calculator:

1. [MODE] change from Func to Par

2. Set window: $T_{\min}=-5$
 $T_{\max}=5$
 $T_{\text{step}}=.1$
 $X_{\min}=-6$
 $X_{\max}=6$
 $X_{\text{scl}}=1$
 $Y_{\min}=-5$
 $Y_{\max}=5$
 $Y_{\text{scl}}=1$

3. Inverse functions:

a) graph $X_1T=-3$ (Describe the relationship between x and y)
 $Y_1T=T$

$X_2T=T$ (Describe the relationship between x and y)
 $Y_2T=-3$ (Describe the relationship between equations 1 and 2)

b) graph $X_1T=2T+1$ (Describe the relationship between x and y)
 $Y_1T=T$

$X_2T=T$ (Describe the relationship between x and y)
 $Y_2T=2T+1$ (Describe the relationship between equations 1 and 2)

c) graph $X_1T=2T^2+1$ (Describe the relationship between x and y)
 $Y_1T=T$

$X_2T=T$ (Describe the relationship between x and y)
 $Y_2T=2T^2+1$ (Describe the relationship between equations 1 and 2)

d) graph $X_1T=2\cos T$ (Describe the relationship between x and y)
 $Y_1T=2\sin T$ (Be sure that the calculator is set in radians)

$X_2T=5\cos T$ (Describe the relationship between x and y)
 $Y_2T=2\sin T$ (Describe the relationship between equations 1 and 2)

