1. Y2 = 3e2x, Y1 = 3e-x x = {1,2}

Area = dx

=3e2x – 3e-x) dx

= e2x + 3e-x  from x = 1 to x = 2

= = e4 + 3e-2 – e2 – 3e-1

Area = 70.12 units2

1. Y = 2sin (), x = 2 + 2t – 2cos(). t = {0,10}

Area =

x = 2 + 2t – 2cos()

dx = 2 + sin () dt

Area = = (2sin ())•( 2 + sin ()) )dt

= 4sin () + sin 2())dt

= cos() + - sin () from t = 0 to t = 10

= -6.45 +

Area = 6.28 units2