















find  $d^2y/dx^2$  in terms of  $x$  and  $y$

45.  $x^2 + y^2 = 36$

47.  $x^2 - y^2 = 16$

49.  $y^2 = x^3$

find  $dy/dx$  by implicit differentiation

1.  $x^2 + y^2 = 36$

3.  $x^{1/2} + y^{1/2} = 9$

5.  $x^3 - xy + y^2 = 4$

7.  $x^3y^3 - y = x$

9.  $x^3 - 3x^2y + 2xy^2 = 12$

11.  $\sin x + 2 \cos 2y = 1$