

29. Find the equation for which the derivative  $\frac{dy}{dx}$  can be found explicitly.

- A)  $\frac{7y^2 + 2x}{3y - 6x^2} = 2$       B)  $\sqrt{2xy} = 6x - 7y$       C)  $2xy = 3$   
D)  $7y - 2x^2 = 6y^2x$       E) *None of these*

30. Find  $\frac{dy}{dx}$  when  $y - 2x^3y = 4$ .

31. Find  $\frac{dy}{dx}$  when  $16x^2 - 25y^2 = 400$ .

32. Find  $\frac{dy}{dx}$  when  $y^{\frac{1}{4}} - 8 = -x^{\frac{1}{4}}$ .

33. When  $x = 1$ ,  $\frac{dy}{dt} = \frac{1}{2}$ . Find  $\frac{dx}{dt}$  when  $x = 1$  if  $y = 3x^2 + 2x^3 - 1$ .

# Calculus Chapter 2 Test Answers

**Greg Jacobs, Joshua Schulman**



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