

## Practice - 2

Once you feel confident with implicit differentiation of trigonometric relations, complete problem 1. Check your answers by going to the Solutions tab in Moodle.

**Instructions:** Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers.

- 1. Use implicit differentiation to find the derivatives of each of the following relations, with respect to x, and then simplify.
  - a.  $y^2 xy = \sin x$
  - b. tan(x + y) = y
  - c.  $x^2 x \cos y + y^3 = 0$

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