 Practice – 1

Once you feel confident with finding the equations of tangent and normal lines, complete problems 1 to 3. 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. Find the equation of the tangent line and the equation of the normal line to the curve $h(x) = \dfrac{x}{x^2 - 2}$ at the point where $x = 2$. Express the equation of each line in general form.

2. At what point(s) on the curve $h(x) = \dfrac{x}{x - 1}$ is the slope -1?