

Lesson 3.3: Radical Equations**Explore Your Understanding Assignment**

This assignment includes short answer questions. Marks assigned to short answer questions are indicated for each question. Be sure to show all necessary work.

- ③ 1. Solve the equation $\sqrt{2x-5} - 4 = -x$, $x \geq \frac{5}{2}$. Show all work, and verify the solution(s).

- ② 2. The speed of a tidal wave produced by a tsunami is determined by the formula $S = 356\sqrt{d}$, where S is the speed of the wave in km/h, and d is the depth of the ocean in km. If the speed of a wave is determined to be 150 km/h, what is the depth of the ocean at that point? Show all work, and round to the nearest hundredth of a kilometre.

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You have completed *Lesson 3.3 Explore Your Understanding Assignment*. Please proceed to the *Unit 3: Radicals Final Review Assignment* on the next page of this *Workbook*.