NAME:

**Lesson 3.3: Radical Equations**

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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 . 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, 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.

**/5**

You have completed *Lesson 3.3 Explore Your Understanding Assignment*.