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|  | Module 5: Lesson 2 ASSIGNMENT |

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|  | Lesson 2: Assignment: Calculating pH and pOH |

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|  | 1. | Determine the hydronium-ion concentration for a solution that has a pH of 0.17.  (2 marks) |

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|  | 2. | A solution of perchloric acid has a concentration of 3.00 × 10−4 mol/L. Determine the pH of this solution. (2 marks) |

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|  | 3. | A solution has a pOH of 4.5. Determine the hydroxide-ion concentration. (2 marks) |

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|  | 4. | A solution of strontium hydroxide has a concentration of 8 × 10-2 mol/L. Determine the pOH of this solution. (2 marks) |

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|  | 5. | Compare the magnitude of the hydroxide-ion concentration of a solution that has a pOH of 2.65 with that of a second solution that has a pOH of 4.65. (3 marks) |

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| Once you have completed all of the questions, submit your work to your teacher. |