**MATLAB 1 Answer Sheet – Individual Task 1**

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| **Course** | **ENGR 13300** | **Semester** | */eg. Fall 2024/* |
| **Assignment Name** | */eg. HW3 EX3 Team #2/* | **Section** | */eg. LC1/* |
| **Student Name** |   | **List collaborators if any(Name, Purdue login)** |   |
| **Student Purdue login** |   |

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| *Task 1 - MATLAB as a Calculator* |

**Part A:**

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| **Expression** | **MATLAB command** | **MATLAB result** |
| $$p=\frac{2^{3^{2}}}{13}+\frac{180}{ln⁡(60)}+\sqrt{10}$$ |  |  |
| $$q=\left(15-\frac{12^{2}}{4}(3^{8}+4)\right)^{2}$$ |  |  |
| $$r=\left|7cot^{-1}\left(\frac{11π}{6}\right)\right|$$ |  |  |

**Part B:**

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| **Expression** | **MATLAB command** | **MATLAB result** |
| $$a=x^{5}z^{2}-\left(\frac{7x}{2z}\right)^{5/3}$$ |  |  |
| $$b=\frac{443x}{2z}+\frac{e^{-xz}}{x-z}$$ |  |  |
| $$c=\frac{ln⁡(x)}{sin⁡(z)}$$ |  |  |
| $$d=log⁡(x)$$ |  |  |

**Part C:** *Flowchart*