

ASSIGNMENT TITLE

Your Name

Saturday 21st August, 2021

Using **mandi** version v3.0.0 dated 2021-08-21
Using **mandistudent** version v3.0.0 dated 2021-08-21
Using **mandiexp** version v3.0.0 dated 2021-08-21

List of GlowScript Programs

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PROBLEM TITLE HERE

Every document must have only ONE problem. You can have as many problem parts as you need. Each part will need a `physicssolution` environment only if extended mathematical content is necessary. You can cite a reference [1] if appropriate.

(a) blah blah blah

A solution not requiring multiple steps can go here. Delete the `physicssolution` block if you don't need it. You can cite a reference [2] if appropriate.

$$PUTYOURSOLUTIONSTEPHERE$$

(1)

(b) blah blah blah

A solution not requiring multiple steps can go here. Delete the `physicssolution` block if you don't need it. Remember that great minds [3][4] think alike. Blogs [5] are cool too. Other journals [6] can be cited.

$$PUTYOURSOLUTIONSTEPHERE$$

(2)

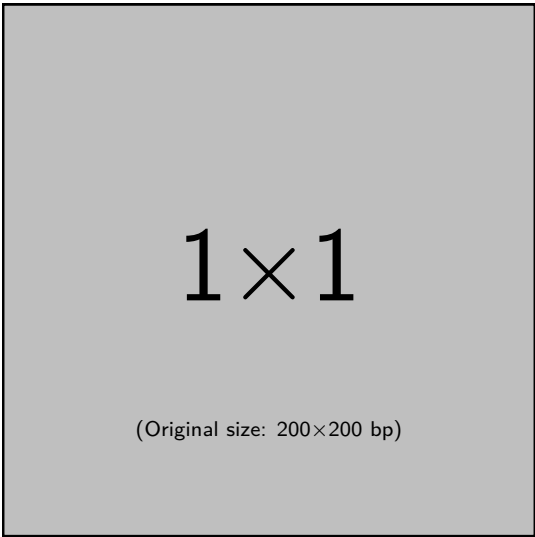


Figure 1: This problem’s diagram.

Figure 1 is nice. It’s captioned **This problem’s diagram** and is on page 2.

GlowScript Program 1: A Placeholder Program

```
1 GlowScript 3.0 VPython
2 # This is just a placeholder.
3 # It is part of the mandi documentation.
4
5 sphere()
```

GlowScript program 1 is nice. It's called **A Placeholder Program** and is on page 3.

References

- [1] H. Kaplan, “The Runge-Lenz vector as an ‘extra’ constant of the motion,” Am. J. Phys. **54**, 157-161 (1986); doi:[10.1119/1.14713](https://doi.org/10.1119/1.14713)
- [2] Ruth Chabay, Bruce Sherwood, and Aaron Titus, “A unified, contemporary approach to teaching energy in introductory physics,” Am. J. Phys. **87**, 504-509 (2019); doi:[10.1119/1.5109519](https://doi.org/10.1119/1.5109519)
- [3] R. Chabay and B. Sherwood, *Matter & Interactions*, 4th ed. (John Wiley & Sons, Hoboken, NJ, 2015).
- [4] John D. Jackson, *Classical Electrodynamics*, 3rd ed. (Wiley, Hoboken, NJ, 1999), pp. 464-468.
- [5] J. Heafner, “Vector Formalism in Introductory Physics VI: A Unified Solution for Simple Dot Product and Cross Product Equations.” (2019) <<https://tensortime.sticksandshadows.net/archives/4924>>.
- [6] R. Cross, “Precession of a spinning ball rolling down an inclined plane,” Phys. Teach. **53**, 217-219 (2015); doi:[10.1119/1.4914559](https://doi.org/10.1119/1.4914559)
- [7] GlowScript, <<https://www.glowscript.org>>.
- [8] “Mathematica stack exchange,” <<https://mathematica.stackexchange.com/q/105298>>, accessed on August 18, 2018.
- [9] <https://wikipedia.org/wiki/List_of_refractive_indices>.