

Name _____ Date _____

Please answer the questions as honestly as you can. These answers will NOT be graded, but rather will be used for your own reflection.

- Answer as best as you can without looking up answers or using any app or website on your phone. You can certainly use your notes or watch videos from OpenLab.
- You may use a calculator to answer these questions.
- Show or write as much work as you are able to so you can show how you arrived at your answer. If this means writing a sentence to show your train of thought, please do so!

Perform the indicated operation where applicable. Simplify your answers completely.

1. $\sqrt{144}$

2. $\sqrt{24}$

3. $\sqrt{8} * \sqrt{5}$

4. $\frac{\sqrt{32}}{\sqrt{2}}$

5. $\sqrt{7} + \sqrt{5}$

6. $\sqrt{21} - \sqrt{11}$

7. $\sqrt{-25}$

8. $10i - 4i$

9. $15 + 21i$

10. $(1 + i)(2 + i)$

11. Look in your Dropbox folder, you should find the 2 worksheets from 9/11/2023, and 10/16/2023. Did you improve on your knowledge of radical and complex numbers?
Please identify and explain where you did or did not improve. If you only have 1 or no worksheets, please write about your knowledge of radical and complex numbers from the beginning of September up to now.
4. 12. In your ENG1101 and CT101 class, you have read, watched, and discussed Plato's *Allegory of the Cave*. Can you draw any parallels between this reading and your experience thus far in MAT1275? Please write about any details and topics you would like to.