



1. $z = x + iy$ and $\bar{z} = x - iy$ are the complex conjugates of z .
2. $|z|^2 = z\bar{z}$
3. $|z_1 z_2| = |z_1| |z_2|$
4. $\left| \frac{z_1}{z_2} \right| = \frac{|z_1|}{|z_2|}$
5. $|z + w| \leq |z| + |w|$ (Triangle inequality)

6. $|z - w| \geq ||z| - |w||$
7. $|z_1 + z_2|^2 = (z_1 + z_2)(\bar{z}_1 + \bar{z}_2) = z_1\bar{z}_1 + z_1\bar{z}_2 + z_2\bar{z}_1 + z_2\bar{z}_2$
8. $|z + w|^2 = |z|^2 + |w|^2 + 2\text{Re}(z\bar{w})$
9. $|z - w|^2 = |z|^2 + |w|^2 - 2\text{Re}(z\bar{w})$
10. $|z + w|^2 + |z - w|^2 = 2(|z|^2 + |w|^2)$

11. $|z_1 + z_2|^2 = |z_1|^2 + |z_2|^2 + 2\text{Re}(z_1\bar{z}_2)$
12. $|z_1 - z_2|^2 = |z_1|^2 + |z_2|^2 - 2\text{Re}(z_1\bar{z}_2)$
13. $|z_1 + z_2|^2 + |z_1 - z_2|^2 = 2(|z_1|^2 + |z_2|^2)$
14. $|z_1 + z_2|^2 - |z_1 - z_2|^2 = 4\text{Re}(z_1\bar{z}_2)$
15. $|z_1 + z_2|^2 + |z_1 - z_2|^2 = 2(|z_1|^2 + |z_2|^2)$

16. $|z_1 + z_2|^2 = |z_1|^2 + |z_2|^2 + 2\text{Re}(z_1\bar{z}_2)$
17. $|z_1 - z_2|^2 = |z_1|^2 + |z_2|^2 - 2\text{Re}(z_1\bar{z}_2)$
18. $|z_1 + z_2|^2 + |z_1 - z_2|^2 = 2(|z_1|^2 + |z_2|^2)$
19. $|z_1 + z_2|^2 - |z_1 - z_2|^2 = 4\text{Re}(z_1\bar{z}_2)$
20. $|z_1 + z_2|^2 + |z_1 - z_2|^2 = 2(|z_1|^2 + |z_2|^2)$

...

Be prepared for highs and lows

...

Typical university week

...

Student profile

2020-2021

... ..
... ..
... ..

Enrolment

... ..
... ..



Study load – full-time or part-time

Full-time students are expected to complete 120 credit points per year. Part-time students are expected to complete 60 credit points per year.

University fees and charges

For more information on university fees and charges, visit the www.jcu.edu.au/fees website.

[jcu.edu.au/fees](http://www.jcu.edu.au/fees)

Student Support Services

Finding help and improving study skills

JCU provides a range of support services to help you with your studies and improve your study skills. These services are available to all students and are designed to help you succeed in your studies.

- Academic Support
- Career Services
- Disability Support
- Financial Support
- Health Services
- Housing Services
- International Student Services
- Learning Support
- Library Services
- Student Union



Promote participation

Handwritten notes under 'Promote participation':

- Encourage all employees to contribute their ideas and opinions.
- Create a safe environment where people feel comfortable sharing their thoughts.
- Listen actively and show genuine interest in what others have to say.
- Recognize and reward contributions that add value to the team.
- Foster a culture of collaboration and mutual respect.



Maintain a positive attitude

Handwritten notes under 'Maintain a positive attitude':

- Focus on the positives and look for opportunities in challenges.
- Practice gratitude and appreciation for others.
- Stay optimistic and resilient in the face of setbacks.
- Surround yourself with positive people who inspire and motivate you.
- Take care of your physical and mental health to maintain energy and positivity.

Be flexible

Handwritten notes under 'Be flexible':

- Adapt to change and embrace uncertainty.
- Be open to new ideas and perspectives.
- Prioritize tasks and adjust plans as needed.
- Communicate effectively and seek feedback.
- Stay calm and composed under pressure.
- Be willing to learn from mistakes and take responsibility.

Transition challenges

Handwritten notes under 'Transition challenges':

- Identify potential challenges and develop strategies to overcome them.
- Seek support from colleagues and mentors.
- Stay organized and manage your time effectively.
- Communicate your needs and concerns.
- Stay motivated and focused on your goals.
- Take breaks and practice self-care.



Contact us

Ask Us

Your questions answered

