

Math C

11.2 Complex Numbers part 2

Simplify.

1.  $2i(4 + 7i)$

2.  $-3i(3 - 2i)$

3.  $5i(2 + 9i)$

4.  $-6i(-3 - 2i)$

5.  $(2 + i)(3 + 5i)$

6.  $(9 + 10i)(2 + i)$

7.  $(5 - 3i)(6 - i)$

8.  $(10 - 4i)(1 - 4i)$

9.  $(9 + i)^2$

10.  $(3 + 10i)^2$

11.  $(7 - 9i)^2$

12.  $(8 - 3i)^2$

**Answer List**

- |                  |                 |
|------------------|-----------------|
| 1. $-14 + 8i$    | 2. $-6 - 9i$    |
| 3. $-45 + 10i$   | 4. $-12 + 18i$  |
| 5. $1 + 13i$     | 6. $8 + 29i$    |
| 7. $27 - 23i$    | 8. $-6 - 44i$   |
| 9. $80 + 18i$    | 10. $-91 + 60i$ |
| 11. $-32 - 126i$ | 12. $55 - 48i$  |

**Catalog List**

- |              |               |               |               |
|--------------|---------------|---------------|---------------|
| 1. TRI CC 5  | 2. TRI CC 6   | 3. TRI CC 7   | 4. TRI CC 8   |
| 5. TRI CC 13 | 6. TRI CC 14  | 7. TRI CC 15  | 8. TRI CC 16  |
| 9. TRI CC 55 | 10. TRI CC 56 | 11. TRI CC 57 | 12. TRI CC 58 |