

Math C

11.3 Complex Solutions part 3

Solve.

1.  $a^2 + a + 3 = 0$

2.  $m^2 - 2m + 5 = 0$

3.  $5n^2 - n + 6 = 0$

4.  $3p^2 + 5p + 3 = 0$

5.  $2a^2 - 6a + 5 = 0$

6.  $8m^2 - 9m + 6 = 0$

7.  $3 = -2x^2 - 3x$

8.  $2x^2 + 5 = 6x$

**Answer List**

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| 1. $\frac{-1 \pm \sqrt{11}i}{2}$  | 2. $1 \pm 2i$                     |
| 3. $\frac{1 \pm \sqrt{119}i}{10}$ | 4. $\frac{-5 \pm \sqrt{11}i}{6}$  |
| 5. $\frac{3 \pm i}{2}$            | 6. $\frac{9 \pm \sqrt{111}i}{16}$ |
| 7. $\frac{-3 \pm \sqrt{15}i}{4}$  | 8. $\frac{3 \pm i}{2}$            |

**Catalog List**

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|---------------|---------------|---------------|---------------|
| 1. TRI DC 93  | 2. TRI DC 97  | 3. TRI DC 101 | 4. TRI DC 105 |
| 5. TRI DC 109 | 6. TRI DC 113 | 7. TRI DC 117 | 8. TRI DC 121 |