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**Problem 1. (1 point)**

Let  $f(z) = z^2 + c$ , where  $c = -0.25 + 1.5i$ . What are the first two iterates of the seed  $z_0 = 0$ ?

$z_1 =$  \_\_\_\_.

$z_2 =$  \_\_\_\_.

*Answer(s) submitted:*

- $-0.2500+1.50i$
- $-2.4375+0.75i$

(correct)

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**Problem 2. (1 point)**

Let  $f(z) = z^2 + c$ , where  $c = -1.25 - i$ . What are the first two iterates of the seed  $z_0 = 0$ ?

$z_1 =$  \_\_\_\_.

$z_2 =$  \_\_\_\_.

*Answer(s) submitted:*

- $-1.2500-1.0i$
- $-0.6875+1.5i$

(correct)