

## Writing Quadratic Functions from Complex Roots (ALG.CN.14)

Write a quadratic function for each set of complex roots.

1.  $x = \pm 3i$

2.  $x = 2 + i, 2 - i$

3.  $x = 5 + \sqrt{2}i, 5 - \sqrt{2}i$

4.  $x = -3 + 7i, -3 - 7i$

5.  $x = -4 + \frac{2\sqrt{6}}{3}i, -4 - \frac{2\sqrt{6}}{3}i$

6.  $x = \frac{7}{2} + \frac{\sqrt{5}}{3}i, \frac{7}{2} - \frac{\sqrt{5}}{3}i$