

## Writing Multiplicity Given Zeros

Date \_\_\_\_\_

Write a polynomial function in standard form given the zeros.

1.  $-3$  (mult. 2),  $4$  (mult. 2)

2.  $\pm\sqrt{6}$ ,  $\pm\frac{2}{3}$ ,  $0$

3.  $\pm 4\sqrt{2}$ ,  $3i$

4.  $-\frac{1}{2}$ ,  $-5+i$

Use the given zeros to write a polynomial function.

5.  $0$ ,  $-1$  (multiplicity 2),  $\frac{4}{3}$

6.  $\pm 5$ ,  $\pm 3\sqrt{2}$

7.  $-3$ ,  $-1-3i$

8.  $-7$ ,  $3+2i$

$$10) -4, -2 - 3i$$

$$11) -4, 3 - 2i$$

$$12) -2, -1 - i$$

$$13) -2 - 3i, 3i$$

$$14) -3i, 3 + 2i$$

$$15) -i, -3 + 2i$$