

Section 5.3:

#1 – 12: Create a function with lead coefficient 1 that satisfies the conditions.

- | | |
|--|--|
| 1) degree 2; zeros $3i$ and $-3i$ | 2) degree 2; zeros $4i$ and $-4i$ |
| 3) degree 3; zeros -4 and $5i$ and $-5i$ | 4) degree 3: zeros -5 and $3i$ and $-3i$ |
| 5) degree 3; zeros 2 and $3i$ | 6) degree 3: zeros 7 and $2i$ and $-2i$ |
| 7) degree 4; zeros $2i$, and $6i$ | 8) degree 4; zeros $3i$ and $4i$ |
| 9) degree 2; zero $3+i$ | 10) degree 2; zeros $4 + i$ |
| 11) degree 2; zero $5 - i$ | 12) degree 2; zero $6 - i$ |