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| Pre-Calculus 2.4 Complex Zeros WS | | | | | |  | | | |
| **For #1-6 expand each polynomial.** | | | | | | | | | |
| 1. |  | | 2. |  | | | 3. |  | |
| 4. |  | | 5. |  | | | 6. |  | |
| **For #9-11 Use the given zeros to write a polynomial equation of least degree with real coefficients in standard form.** | | | | | | | | | |
| 9. |  | | 10. | |  | | 11. | |  |
| **For #12-14 Use the given zeros and long division to find the factored form of each polynomial.** | | | | | | | | | |
| 12. | | With zeros | 13. | With zeros | | | 14. | With zero | |

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|  | | Example: with zeros:  Step 1: write the zeros in factored form (given I’ll write )  Step 2: multiply out the factored form of the given zeros (so this becomes )  Step 3: use long division to divide your step 2 result into the larger polynomial  Step 4: Rewrite the original in factored form -you may need to continue factoring. | | | | | | | |
| 12. | | With zeros  \* this is the example, but you still need to work out the full solution following the steps above to help you learn!\* | 13. | With zeros | | | 14. | With zero | |