|  |  |
| --- | --- |
| Lesson 5.7 | Homework |

Multiply or divide the following. Show your work and verify on your calculator.

1.  2.  3. 

4.  5.  6. 

7.  8. 

Solve the following equations. Write answers in simplest radical form

9.  10.  11. 

The impedance of an element can be represented using the complex number *V* + *Ii*, where *V* is the element’s voltage and *I* is the element’s current in milliamperes. If two elements are in a circuit in parallel, the total impedance of the two elements in parallel is given below. Calculate the total impedance for each pair of elements. Leave your response as a fraction.

12. Element 1: 28 + 2*i*

Element 2: 29 + 2*i*

13. Element 1: 19 + 3*i*

Element 2: 21 + 4*i*