Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Operations with Radicals

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| **Adding/Subtracting**   1. Simplify each so they have the same radicand. 2. Add or subtract! | 1. 9 + 4 | 1. + 6 | 1. - |
| **Multiply Radials**  Multiply real numbers with real numbers, radical numbers with radical number.  SIMPLIFY! | 1. () | 1. 3(5 | 1. 4(2) |
| 1. (8 + ) | 1. 2( + 4) | 1. 5(2 - 2) |
| **Dividing Radicals**   1. **Divide or reduce first if possible!** 2. Simplify numerator and denominator |  |  |  |
|  |  |  |
| **Dividing Radicals by rationalizing the denominator**  **GOAL: no radicals left in the denominator**   1. multiply numerator and denominator by the same radical to force a perfect square to occur in the denominator 2. simplify!!! |  |  |  |
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Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Algebra Operations with radicals ws

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| 1. 8 - | 1. 6 + 12 | 1. + | 1. 20 - 2 |
| 1. 2 - | 1. -4 + 6 | 1. + 2 | 1. 2 - 7 |
| 1. (5) | 1. 6(4) | 1. 8(6) | 1. 10(5) |
| 1. ( - 5) | 1. ( + 1) | 1. ( – 4) | 1. ( + 2 |
|  |  |  |  |
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