***Pre-Calculus 11***

***Unit 2: Absolute Value and Radical***

***Worksheet 2.2 – Simplifying Radical Expressions***

1. Without using a calculator, arrange the following in order from least to greatest.
2.  b) 

c)  d) 

1. Without using a calculator, write the following as a mixed radical.
2.  b)  c)  d) 

e)  f)  g)  h) 

1. Without using a calculator, write the following as an entire radical.
2.  b)  c)  d) 
3. Without using a calculator, determine where the following radicals are undefined and simplify them.
4.  b)  c)  d) 
5. \*A square is inscribed in a circle. The area of the circle is $48π$ cm2
6. What is the exact length of the diagonal of the square?
7. Determine the exact perimeter of the square.
8. \*Determine restrictions for *a* and *b*, then simplify the radical.
9.  b)  c) 

***Solutions***

1. a)  b) 

c)  d) 

1. a)  b)  c)  d) 

e)  f)  g)  h) 

1. a)  b)  c)  d) 

4. a)  b)  c)  d) 

5. a) *cm* b) *cm*

6. a)  or   b)   c)  