

Challenge Problem 1

(due March 13)

Math 130 *Kovitz* Spring 2020

Let $a = 4^{2.75}$ and $b = 4^{-0.75}$.

- (a) Find exact radical expressions with rationalized denominators for: $a + b$, $a - b$.
- (b) Find approximate 4-place-decimal values by using a calculator for: $a + b$, $a - b$.
- (c) Then show that the radical expressions yield the same 4-place-decimal values.