

# CALCULATOR APPLICATIONS TIPS (MARCH 2020)

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## USING TI-89

### 1. Finding the root of a number

(A)  $\sqrt{5290} = \underline{\hspace{2cm}}$ .

Simplify  $\sqrt{5290}$

`Diamond` `9` `5290` `,` `2` `)` `Enter`

Answer :  $23\sqrt{10}$

Find  $\sqrt{5290}$ . Write the answer using 3 significant digits.

`Diamond` `9` `5290` `,` `2` `)` `ENTER` `Diamond` `Enter`

Notice that `Diamond` `Enter` provides a decimal answer.

(B)  $\sqrt[3]{4510} = \underline{\hspace{2cm}}$ .

`Diamond` `9` `4510` `,` `3` `)` `ENTER` `Diamond` `Enter`

Answer : 16.5

2.  $8! = \underline{\hspace{2cm}}$ .

`8` `Diamond` `÷` `Enter`

Answer : 40,320

3.  $\text{Log}(2980) =$  \_\_\_\_\_. Write the answer using 3 significant digits.

`Diamond` `7` `2980` `)` `Enter` `Diamond` `Enter`

Answer : 3.47

4. Expanding

A.  $(2x - 5)^3 =$  \_\_\_\_\_.

`F2` `Expand` `(` `2` `x` `-` `5` `)` `^` `3` `)` `Enter`

Answer :  $8x^3 - 60x^2 + 150x - 125$

B.  $(3+2i)^2 =$  \_\_\_\_\_.

`F2` `Expand` `(` `3` `+` `2` `2nd` `i` `)` `^` `2` `)` `Enter`

Answer :  $5 + 12i$

C.  $(x + 3)(x^2 - 5x + 2)$ .

`F2` `Expand` `(` `x` `+` `3` `)` `(` `x` `^` `2` `-` `5` `x` `+` `2` `)` `)`

Answer :  $x^3 - 2x^2 - 13x + 6$