

Bell Work Tuesday 11/13

SAT No Calculator

- For what **real value of x** is the equation below true?

$$x^3 - 5x^2 + 2x - 10 = 0$$

- B) Factor the polynomial completely

$$\begin{array}{r}
 x^3 - 5x^2 + 2x - 10 \\
 \underline{x^2(x-5)} \quad + \underline{2(x-5)} \\
 (x^2+2) \cdot (x-5)
 \end{array}$$

Factor by grouping

2 imaginary sol. $\rightarrow x = \pm \sqrt{-2}$ 1 real sol. (1 x-int)