

73 Factor or find the zero of 2 graphically.

$$x^3 = 2x^2 - 7x + 14 \Rightarrow x^3 - 2x^2 + 7x - 14 = 0 \Rightarrow x^2(x - 2) + 7(x - 2) = 0 \Rightarrow (x - 2)(x^2 + 7) = 0$$

$$\Rightarrow (x - 2)(x + i\sqrt{7})(x - i\sqrt{7}) = 0 \Rightarrow x = 2, \pm i\sqrt{7}$$