

Math-08 Homework #7

Reading

- Text book section 1.5

Problems

- 1). Solve for x (Hint: quadratic-like?)

$$x + 2\sqrt{x} - 15 = 0$$

- 2). Solve for x (Hint: there should be only two solutions, not four)

$$2|2x + 3| - 6 = 3|x| + 1$$

- 3). Solve for x

a). $(x + 1)^{\frac{2}{3}} = 9$

b). $(x + 1)^{\frac{2}{3}} = -9$

c). $(x + 1)^{\frac{3}{2}} = 27$

d). $(x + 1)^{\frac{3}{2}} = -27$

- 4). Consider $x^4 - 81 = 0$

- a). Solve for x

- b). This is a degree-4 polynomial, so there is a maximum of four possible solutions. You should have found only two. Why are there only two?