

# Retake 3A: Radicals and inequalities

MATH 1110, FALL 2017

NAME:

1. (3 points) Solve  $\sqrt{3-x} = 6$ .

2. (5 points) Solve  $x = \sqrt{3x+10}$ .

3. Find the solutions to each inequality. Write your answer in interval notation, and draw a picture of your solutions on a number line.

(a) (2 points)  $7 - 2(a - 5) > -11$

(b) (5 points)  $|x + 3| \leq 10$

(c) (5 points)  $5|2x + 5| + 13 \geq 28$