Quiz 3A: Radicals and inequalities

Name:

1. (3 points) Solve $\sqrt{x-2} = 2$.

2. (5 points) Solve $x = \sqrt{2x-7}$.

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) $3 - 2(b - 4) > -1$

(b) (5 points) $|v - 4| \leq 2$

(c) (5 points) $4|6 - 2x| + 8 \geq 24$