Precalculus Section 5.3 Exercises

Solve the following equations.

1. $x - 4 = 1 + \sqrt{2x - 3}$

2. $\sqrt{x - 5} + \sqrt{x - 10} = 5$ (Hint: rearrange to get something nicer before squaring both sides.)

3. $3 - (4x + 15)^{2/3} = -6$

4. Do problem 38(a) on page 408 of Stitz-Zeager, assuming that the air temperature today is 10°F and the wind is a steady 15 miles per hour. What would the wind speed have to be in order for the wind chill to be 0°F?