

M\$5 Homework 18

In 1 – 4, solve each radical equation and check.

1. $x = \sqrt{6x + 7}$

2. $\sqrt{x^2 + 13} = x + 1$

3. $\sqrt{2 - 2y} = y + 3$

4. $y = 3 + \sqrt{30 - 2y}$

In 5 – 8, write each expression in simplest radical form.

5. $6\sqrt{\frac{4}{3}}$

6. $\frac{3\sqrt{28} - 12\sqrt{21}}{3\sqrt{7}}$

7. $\frac{3}{\sqrt{10} - 2}$

8. $\frac{4 + \sqrt{2}}{3 - \sqrt{2}}$

9. Solve and graph the solution set: $|x + 4| < 2$