Section 2-14 : Absolute Value Equations

For problems 1 – 5 solve each of the equation.

1. $|4p-7|=3$

2. $|2-4x|=1$

3. $6u=|1+3u|$

4. $|2x-3|=4-x$

5. $\left|\frac{1}{2}z+4\right|=|4z-6|$

For problems 6 & 7 find all the real valued solutions to the equation.

6. $|x^2+2x|=15$

7. $|x^2+4|=1$

Section 2-15 : Absolute Value Inequalities

Solve each of the following inequalities.

1. $|4t+9|<3$

2. $|6-5x|\le 10$

3. $|12x+1|\le -9$

4. $|2w-1|<1$

5. $|2z-7|>1$

6. $|10-3w|\ge 4$

7. $|4-3z|>7$