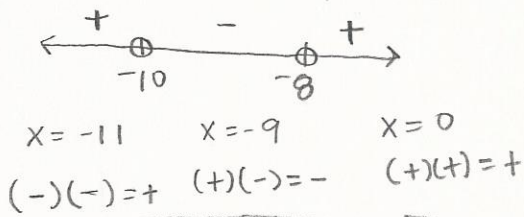


POLYNOMIAL INEQUALITIES

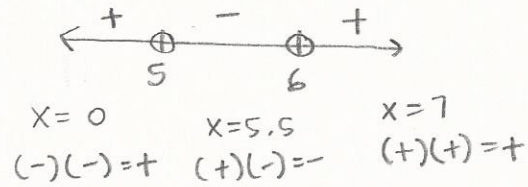
KEY

1. $x^2 + 18x + 80 > 0$
 $(x+10)(x+8) = 0$
 $x = -10 \quad x = -8$



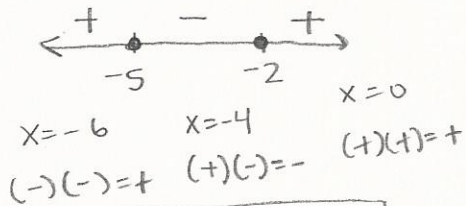
$(-\infty, -10) \cup (-8, \infty)$

2. $x^2 - 11x + 30 < 0$
 $(x-5)(x-6) = 0$
 $x = 5 \quad x = 6$



$(5, 6)$

3. $x^2 + 7x + 10 \geq 0$
 $(x+5)(x+2) = 0$
 $x = -5 \quad x = -2$



$(-\infty, -5] \cup [-2, \infty)$

4. $x^2 - 5x - 6 \leq 0$
 $(x-6)(x+1) = 0$
 $x = 6 \quad x = -1$



$[-1, 6]$

5. $(-\infty, -4) \cup (-2, \infty)$

7. $(-2, 0)$

9. $(-\infty, 5)$

11. $(-\infty, -4) \cup (2, \infty)$

13. $[-\frac{1}{2}, 3)$

6. $[-1, 4]$

8. $(-\infty, -5] \cup [-\frac{2}{3}, \infty)$

10. $(-\infty, 7)$

12. $(-\infty, -5) \cup (3, \infty)$

14. $[-\frac{1}{2}, 2)$