

Algebra Review Practice Problems Answers

From “*Linear Systems, Quadratics, and Absolute Value Equations*” handout

2. $(7, -1)$

10. $x = \frac{5}{2}$ and $x = -8$

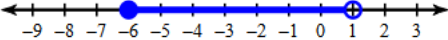
13. $x = -2$ and $x = -8$

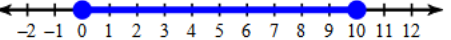
14. $x = \frac{1}{2}$ and $x = \frac{7}{2}$


15. $x = 9$ and $x = -5$


16. $x = -4$ and $x = 7$

From “*Mini-handout*”

1) $-6 \leq r < 1$:  A number line from -9 to 3 with tick marks every 1 unit. A solid blue circle is at -6 and an open circle is at 1. A blue line segment connects the two circles.

2) $0 \leq x \leq 10$:  A number line from -2 to 12 with tick marks every 1 unit. Solid blue circles are at 0 and 10. A blue line segment connects the two circles.

3) $-9 < a < -5$:  A number line from -12 to -2 with tick marks every 1 unit. Open circles are at -9 and -5. A blue line segment connects the two circles.

4) $1 < x \leq 6$:  A number line from -2 to 10 with tick marks every 1 unit. An open circle is at 1 and a solid blue circle is at 6. A blue line segment connects the two circles.

5. (ignore maxima and minima part, didn't get to that in class)

$x = -6$ $x = 3.2$ $x = 8.1$

6. (ignore maxima and minima part, didn't get to that in class)

$x = -8.1$ $x = -1.1$ $x = 7.1$