

Day 2 Solving Equations, Inequalities Problems- Answers

1. a) -1 b) (-1,4) c) $\left(\frac{4}{3}, \frac{9}{4}\right)$ point, $27x+8y-54=0$ 2. a=4, b=13, $x=3/4$

3.a) a=3,b=2 b) $-1 < x < -\frac{2}{3}$ or $x > 1$ c) $x < \frac{-2-\sqrt{31}}{9}$ or $x > \frac{-2+\sqrt{31}}{9}$

4. $0 \leq x \leq 1$ or $x \geq 2$ 5. A) a=2, c=2 $y=5x-2$ b) (-1,-7) 6. $x \leq 4$

7.a) $x \leq -4$ or $x \geq -2$ b) $D = \{x \in \mathbb{R}\}, R = \{y \geq -1.5\}$

8a) $x = 4, 1$ b) $1 \leq x < 2$ or $x > 10$

9. a=3, b=-2 and $P(x) = x^4 - 2x^3 + 3x^2 + 13x - 9$