

Algebra II Homework #8 – Answer Key

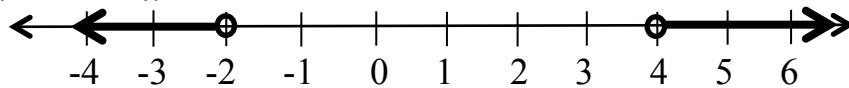
1) $\frac{-72}{17}$

2) $x = \frac{13}{6}$

3) $y = -3x - 19$

4) $\sqrt{58}$

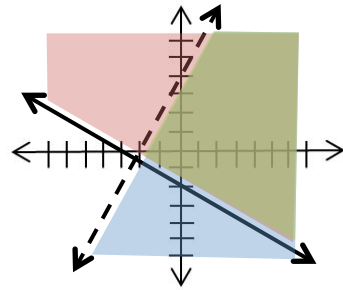
5) $x < -2$ or $x > 4$



6) \$43.50 for premium & \$21.50 for standard

7) 9 pennies, 42 nickels, 12 quarters

8) $y < \frac{3}{2}x + 4$, $y \geq \frac{-2}{3}x - 2$



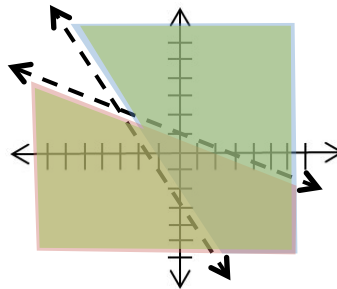
9) Rob's age = 21 Grace's age = 8

10) 107 adult

81 senior

133 children

11) $y < \frac{-2}{5}x + 1$, $y > \frac{-5}{3}x - 3$



12) plane = 338, wind = 78

13) 45, 64, 91

14) No solutions

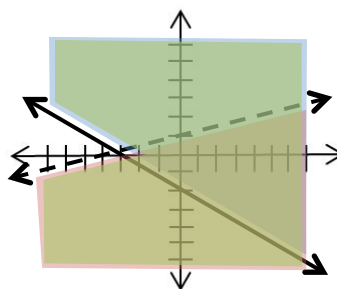
15) peanut butter = \$9, chocolate = \$13

16) 59 donuts

52 muffins

74 brownies

17) $y \geq \frac{-2}{3}x - 2$, $y < \frac{1}{4}x + 1$



18) canoe = 3, water = 1

19) 15 quarters

12 dimes

18 pennies

20) $y < \frac{3}{1}x + 2$, $y \geq \frac{3}{4}x - 1$

