

# Algebra II/Pre–Calculus *Honors*

## Assignment P.1

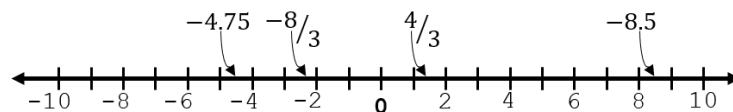
Section Pages 12 & 13

Problems 12, 24, 26, 28, 37, 44, 47, 48, 52, 56, 64, 69–72

Michael Brodskiy

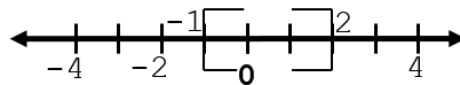
*questions omitted, only answers are included in this document*

12.)



24.)

$x$  is **more** than  $-1$  and **at most**  $-2$



26.)

$$y \leq 25 \implies (-\infty, 25]$$

28.)

$$-3 \leq k < 5 \implies (-3, 5]$$

37.)

the answer is always negative; the fraction always simplifies to a negative integer

44.)

$$|30 - (-20)| = 50$$

47.)

$$|x - 5| \leq 3$$

48.)

$$|x + 10| \geq 6$$

52.)

$$3,021.5 \times 10^7 \text{ dollars}$$

56.)

**terms:**  $4x^3$ ,  $.5x$ ,  $-5$

**coefficients:**  $4$ ,  $.5$ ,  $-5$

64.)

**a.)**

$$x = 2; \frac{0}{4} \Rightarrow 0$$

**b.)**

$$x = -2; -\frac{4}{0} \Rightarrow \emptyset, \therefore \text{undefined}$$

69.)

$$\frac{5x}{12}$$

70.)

$$\frac{15x}{20} + \frac{4x}{20} = \frac{19x}{20}$$

71.)

$$\frac{x}{4}$$

72.)

$$\frac{7x}{9}$$

$$2$$