Weekly Review #14

Name: _____

_____ Class: _____

Due Date #1: Tues, 1/13 Due Date #2: Fri, 1/16 (Regardless of whether you have class.)

- 1.) Factor completely: $20x^4 + 55x^3 15x^2$
- 2.) If 4(2x + 1) = 22 + 3(2x 5), then x =
 - (A) $\frac{2}{3}$ (C) $-\frac{1}{2}$ (B) $\frac{3}{2}$ (D) 8
- 3.) If a(x + b) = c, what is x in terms of a, b, and c?
 - (A) $\frac{c-b}{a}$ (C) $\frac{b+c}{a}$
 - (B) $\frac{c-ab}{a}$ (D) $\frac{ac-b}{a}$
- 4.) A postal clerk sold 50 postage stamps for \$16.05. Some were 39-cent stamps and the rest were 24-cent stamps. How many 39-cent stamps were sold?
 - (A) 19 (C) 27
 - (B) 23 (D) 31
- 5.) When x is an integer, what is the solution set of $5 \le x < 8$?
 - (A) $\{5, 6, 7, 8\}$ (C) $\{6, 7, 8\}$
 - (B) $\{5, 6, 7\}$ (D) $\{6, 7\}$



6.) What is the value of x in the inequality $14 \ge 3x + 2$?

(A)
$$-4 \ge x$$
(C) $4 \ge x$

(B) $-4 \le x$
(D) $4 \le x$

7.) Parking charges at Superior Parking Garage are \$5.00 for the first hour and \$1.50 for each additional 30 minutes. If Margo has \$12.50, what is the maximum number of hours she will be able to park her car at the garage?

(A)
$$2\frac{1}{2}$$
 (C) 6
(B) $3\frac{1}{2}$ (D) $6\frac{1}{2}$

- 8.) When $a^2 + a 3$ is subtracted from $3a^2 5$, the difference is
 - (A) $2a^2 a 2$ (B) $-2a^2 + a + 2$ (C) $2a^2 + a - 8$ (D) $4a^2 + a - 8$
- 9.) If the length of the side of the square is represented by 2x + 3, which expression represents the area of the square?
 - (A) $4x^2 + 9$ (C) $4x^2 + 6x + 9$
 - (B) 8x + 12 (D) $4x^2 + 12x + 9$

10.) If the points (3, 2) and (c, -5) are on a line whose slope is $-\frac{7}{2}$, what is the value of c?

- (A) 5 (C) $\frac{15}{7}$
- (B) 6 (D) 4



Algebra Enriched WR #I4