## Weekly Review \#l4:

Name: $\qquad$ Class: $\qquad$
Due Date \#1: Tues, 1/13 Due Date \#2: Fri, 1/16 (Regardless of whether you have class.)
1.) Factor completely: $20 x^{4}+55 x^{3}-15 x^{2}$
2.) If $4(2 x+1)=22+3(2 x-5)$, 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) $\frac{c-a b}{a}$
(D) $\frac{a c-b}{a}$
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 $5 \leq x<8$ ?
(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 $14 \geq 3 x+2$ ?
(A) $-4 \geq x$
(C) $4 \geq x$
(B) $-4 \leq x$
(D) $4 \leq x$
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 $3 a^{2}-5$, the difference is

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

