

NAME: _____

WEEKLY REVIEW SHEET #25

DATE: _____

ALGEBRA

1 – 5 Multiple Choice. SHOW ALL WORK. (4 points each)

1. Which of the following is the positive solution of $7x - x^2 = -18$?
- a. 2 b. 3 c. 6 d. 9

2. Given: $A = \sqrt{3}$ $B = 5\sqrt{2}$ $C = \sqrt{25}$ $D = \sqrt{1}$
Which expression results in a rational number?
- a. $A + B$ b. $B + C$ c. $C + D$ d. $D + A$

3. $(3.8763 \times 10^{-5}) \div (5.345 \times 10^{-6})$ is approximately:
- a. 7.3 b. 0.073 c. 73 d. 730

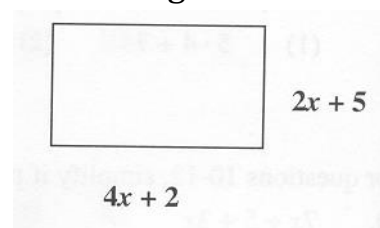
4. Four expressions are shown below:

- I. $2(3x^2 - 3x - 60)$
II. $6x(x - 1) - 120$
III. $6(x - 4)(x + 5)$
IV. $6(x^2 - x - 20)$

The expression $6x^2 - 6x - 120$ is equivalent to:

- a. I and II, only b. I, II, and IV
c. II, III and IV d. II and IV, only
5. Write and simplify an expression for the perimeter of the figure.

- a. $(4x + 2) + (2x + 5); 6x + 7$
b. $2(4x + 2) + 2(2x + 5); 12x + 14$
c. $2(4x + 2) + 2(2x + 5); 12x + 7$
d. $2(2x + 5) + 2(4x + 2); 10x + 11$



6. How do you know if an equation is a linear equation? A quadratic equation? (2 pts)

7 – 9 Simplify. (3 points each)

7. $4 - 5(2a + 4) + a$

8. $\frac{24x^3 + 32x^2 - 4x}{4x}$

9. $(2x + 5)(x - 3)$

10. Solve: $\frac{3}{a+4} = \frac{a-1}{a}$ **(5 points)**

11. Graph the following function. **(4 points)**
 $-2x + y - 4 = x$

