1A.4b

- 1. What is the solution set to the equation  $6x^2 + 5x = 4$ ?
  - A.  $\left\{\frac{1}{2}, \frac{4}{3}\right\}$
  - B.  $\left\{-\frac{4}{3}, \frac{1}{2}\right\}$
  - C.  $\left\{-\frac{1}{2}, \frac{4}{3}\right\}$
  - D.  $\left\{-\frac{4}{3}, -\frac{1}{2}\right\}$
- 2. What are the solutions to the equation  $0 = x^2 6x$ ?

Solutions:

3. Select all correct solutions to the equation  $x^2 - 9x = 36$ .

<i>x</i> = 12	x = -12	<i>x</i> = 36
<i>x</i> = -36	x = 3	x = -3

4. What is the solution set to the equation  $2x^2 - 6x = 8$ ?

Solution Set: \_\_\_\_

5. What are the solutions in simplest radical form to the equation

$$2x^2 + 6x - 1 = 0$$
?  
A.  $-3 \pm \sqrt{7}$ 

A. 
$$-3 \pm \sqrt{7}$$

B. 
$$-3 \pm 2\sqrt{7}$$

C. 
$$\frac{-3 \pm 2\sqrt{11}}{2}$$

D. 
$$\frac{-3 \pm \sqrt{11}}{2}$$

Solution:

6.	What are two algebraic methods that can be used to determine the solution set to the equation $x^2 + 12x - 28 = 0$ ?  1
7.	A large flag has the following measurements. Length: $x+12$ ; width: $x+6$ . The are

7.	A large flag has the following measurements. Length: $x+12$ ; width: $x+6$ . The area of
	the flag is 160 square feet. What are the actual dimensions of the length and width of this
	flag?

Dimensions: