1A.4b

1. What is the solution set to the equation $6 x^{2}+5 x=4$ ?
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 $0=x^{2}-6 x$ ?

Solutions: $\qquad$
3. Select all correct solutions to the equation $x^{2}-9 x=36$.

| $x=12$ | $x=-12$ | $x=36$ |
| :--- | :--- | :--- |
| $x=-36$ | $x=3$ | $x=-3$ |

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

Solution Set: $\qquad$
5. What are the solutions in simplest radical form to the equation $2 x^{2}+6 x-1=0$ ?
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
$x^{2}+12 x-28=0$ ?
1.
2.
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: $\qquad$

