Find all real number solutions of each of the following equations. If the solutions are irrational, then express them rounded to three significant figures.
3. $25 x^{2}+30 x+9=0$

$$
(5 x+3)^{2}=0
$$

$5 \mathrm{x}+3=0$
$x=-3 / 5$
6. $\quad 2 x^{2}=x+6$ $2 x^{2}-x-6=0$

$$
(2 x+3)(x-2)=0
$$

$$
2 x+3=0 \text { or } x-2=0
$$

$$
x=-3 / 2 \text { or } x=2
$$

$$
\text { 9. } \begin{gathered}
x^{2}+6 x=0 \\
x(x+6)=0 \\
x=0 \text { or } x+6=0 \\
x=0 \text { or } x=-6
\end{gathered}
$$

$$
\begin{array}{r}
\text { 12. } \begin{array}{c}
x^{2}=5 x-10 \\
x^{2}-5 x+10=0
\end{array} \\
x=\frac{5 \pm \sqrt{25-40}}{2}
\end{array}
$$

no real number solutions

$$
\begin{aligned}
& \text { 15. } 6 x^{2}=x+1 \\
& 6 x^{2}-x-1=0 \\
& (3 x+1)(2 x-1)=0 \\
& 3 x+1=0 \text { or } 2 x-1=0 \\
& x=-1 / 3 \text { or } x=1 / 2
\end{aligned}
$$

$$
\begin{gathered}
\text { 18. } x^{2}-7 x=3 \\
x^{2}-7 x-3=0 \\
x=\frac{7 \pm \sqrt{49+12}}{2}=\frac{7 \pm \sqrt{61}}{2} \\
x \approx 7.41 \text { or } x \approx-0.405
\end{gathered}
$$

