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. $x(5 x-1)-3(2 x+1)=x+1$

$$
5 x^{2}-x-6 x-3=x+1
$$

$$
5 x^{2}-7 x-3=x+1
$$

$$
5 x^{2}-8 x-4=0
$$

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

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

$$
x=-2 / 5 \text { or } x=2
$$

6. $4 x^{2}-81=0$

$$
(2 x+9)(2 x-9)=0
$$

$$
2 x+9=0 \text { or } 2 x-9=0
$$

$$
x=-9 / 2 \text { or } x=9 / 2
$$

9. $x^{2}=4 x+3$
$x^{2}-4 x-3=0$
$x=\frac{4 \pm \sqrt{16+12}}{2}=\frac{4 \pm \sqrt{28}}{2}$
$x \approx 4.65$ or $x \approx-0.646$
10. $\mathrm{x}^{2}=5$

$$
\begin{gathered}
x= \pm \sqrt{5} \\
x \approx \pm 2.24
\end{gathered}
$$

