## 0-4 Solving Quadratics

Name $\qquad$
We can solve some quadratic equations by factoring:
Example: $\quad 3 x^{2}+7 x-6=0$

$$
\begin{array}{lll}
(3 \mathrm{x}-2)(\mathrm{x}+3)=0 \\
3 \mathrm{x}-2=0 & \text { or } & \mathrm{x}+3=0 \\
\mathrm{x}=\frac{2}{3} & \text { or } & \mathrm{x}=-3
\end{array}
$$

Solve these quadratic equations by factoring.

1. $5 \mathrm{x}^{2}+13 \mathrm{x}+6=0$
2. $4 x^{2}+16 x+15=0$
3. $30 x^{2}-x-3=0$
4. $x^{2}+2 x+1=0$
5. $6 x^{2}+23 x+20=0$
6. $8 x^{2}+17 x+2=0$

Solve these quadratic equations using the quadratic formula, which always works unlike factoring.
7. $2 x^{2}+8 x+5=0$
8. $5 x^{2}+2 x-6=0$

