Solve each problem by factoring.

1. $x^{2}-13x+36=0$
2. $3y^{2}+13y=-14$
3. $2b^{2}-11b=0$
4. $3x^{2}-12=0$
5. $5y^{2}-35y=40$
6. $12n^{2}+22n=-8$
7. $(x-6)(x-5)=6$