Factor out the GCF and the write each trinomial in factored form.

1. $9x^2 - 54x + 72$

2. $7a^2 - 14a - 21$

3. $2a^3 + 8a^2 - 64a$

4. $5x^4 - 10x^3 - 75x^2$

5. $-8x^2 + 20x + 12$

6. $-20n^3 + 30n^2 + 20n$

Solve each equation by factoring.

7. $3x^2 + 15x + 18 = 0$

8. $5x^2 - 35x + 60 = 0$