Factor:

1. $x^{2}+4x+4$ 2. $5x^{2}+4x-12$ 3. $x^{2}-21x-22$
2. $2x^{2}-5x-7$ 5. $x^{2}+2x-63$

Solve:

1. $x^{2}-7x-8=0$ 7. $12x^{2}+4x-5=0$ 8. $x^{2}-5x+6=0$