## Algebra I Worksheet \#5 Unit 11 Selected Solutions

Perform the indicated operations.
2. $(x+4)(x-4)=\underline{x^{2}-16}$
6. $(5 x-8)(5 x+8)=25 x^{2}-64$
14. $(5 x+3)^{2}=25 x^{2}+30 x+9$
18. $(4 x-7)^{2}=16 x^{2}-56 x+49$

Factor each of the following.
8. $25 x^{2}-1=(5 x+1)(5 x-1)$
12. $4 x^{2}-81=(2 x+9)(2 x-9)$
22. $25 x^{2}+10 x+1=(5 x+1)^{2}$
26. $100 x^{2}-60 x+9=(10 x-3)^{2}$
30. $4 x^{2}+12 x+5=(2 x+5)(2 x+1)$
34. $7 x^{2}-16 x+4=(7 x-2)(x-2)$
38. $8 x^{2}-2 x-3=(4 x-3)(2 x+1)$
42. $6 x^{2}+5 x-4=(3 x+4)(2 x-1)$

