LESSON 76

1. $(x+2)(x-1)(x-4)=0$
$x^3-3x^2-6x+8=0$

2. $x(x+2)(x-2)(x-3)=0$
$x^4-3x^3-4x^2+12x=0$

3. $x\left(x-\sqrt{2}\right)\left(x+\sqrt{2}\right)=0$
$x(x^2-2)=0$
$x^3-2x=0$

4. $(x-1)(x+1)(x-i)(x+i)=0$
$(x^2-1)(x^2+1)=0$
$x^4-1=0$

5. $x^3(x+2)=0$
$x^4+2x^3=0$

6. $(x-4)(x-1)^2=0$
$x^3-6x^2+9x-4=0$

7. $(x+2)(x-2)(x-1)^2=0$
$(x^2-4)(x^2-2x+1)=0$
$x^4-2x^3-3x^2+8x-4=0$

8. $\left(x-\sqrt{2}\right)\left(x+\sqrt{2}\right)(x-1)^3=0$
$(x^2-2)(x-1)^3=0$
$(x^2-2)(x^3-3x^2+3x-1)=0$
$x^5-3x^4+x^3+5x^2-6x+2=0$