**SOLVING QUADRATIC EQUATIONS BY FACTORING**

**Solve the quadratic equation by factoring.**

**1)** $3x^{2}+ 21x+30=0$ **2)** $x^{2}+5x-14=0$

**3)** $x^{2}+ 16x+15=0$ **4)** $5x^{2}+30x+45=0$

**5)** $x^{2}+3x=54$ **6)** $65= x^{2}+8x$

**7)** $n^{2}+8n+32= -4n$ **8)** $2x^{2}-9x-35=0$

**9)** $7x^{2}-10x+3=0$ **10)** $4x^{2}-21x+5=0$

**11)** $4x^{2}-8x= -3$ **12)** $2x^{2}+19x= -24 $

**13) 2**$z^{2}+15z= -18$ **14)** $6x^{2}+19x-10=-20$

**15)** $3b^{2}-10b-8=0$ **16)** $16b^{2}-24b+9=0 $

**17)** $25x^{2}-4=0$ **18)** $3x^{2}-24x+48=0$

**19)** $3x^{2}-27=0$ **20)** $6b^{2}-72b=0$

**21)** $90x^{2}-120x+40=0$ **22)** $16x^{2}-56x+49=0$

**23)** $4m^{2}+10m=0$ **24) 7**$r^{2}=21r$