1) $3x - 2(x+3) = x - 3(x+1)$

2) $\dfrac{2x-4}{3} = 3 - \dfrac{4+x}{2}$

3) $3x^2 - 12x = 0$

4) $4x^2 - 100 = 0$

5) $(x-2)^2 = 100$