

Multiply the following binomials (FOIL)

1. $(w+1)(w+6)$

2. $(r-3)(r-4)$

3. $(b-14)(b+5)$

4. $(c+5)(2c+4)$

5. $(z-12)(3z+2)$

6. $(2y+9)(5y-8)$

7. $(2x+3y)(5x-2y)$

8. $(w-3)\left(w+\frac{2}{3}\right)$

9. $(0.7r+0.2s)(0.4r+0.6s)$

10. $(x+4)^2$

Factor the following equations and solve for x

11. $x^2+3x+2=0$

12. $x^2-7x-8=0$

13. $x^2+12x+32=0$

14. $x^2-8x+16=0$

15. $x^2-16x+48=0$

16. $x^2+3x-10=0$

17. $2x^2+5x-3=0$

18. $x^2+x-156=0$

19. $x^2-32x-144=0$

20. $x^2-19x-120=0$