

## HW25

p117 #13-20, 26-29, 32-35

$$13. \quad 3x(2x-1)=0$$

$$3x=0 \quad 2x-1=0$$

$$\boxed{x=0} \quad \boxed{2x=1}$$

$$\quad \quad \quad \boxed{x=1/2}$$

$$14. \quad (3x-1)(3x+1)=0$$

$$\boxed{\pm 1/3 = x}$$

$$15. \quad x^2-2x-8=0$$

$$(x-4)(x+2)=0$$

$$\boxed{x=4, -2}$$

$$16. \quad (x-9)(x-1)=0$$

$$\boxed{x=9, 1}$$

$$17. \quad (x+5)(x+5)=0$$

$$\boxed{x=-5}$$

$$18. \quad \left(\frac{2}{3}x+3\right)(2x+3)=0$$

$$\boxed{x=-3/2}$$

$$19. \quad (-2x+1)(-x+3)=0$$

$$\boxed{x=-1/2, x=3}$$

$$20. \quad 2x^2-19x-33=0$$

$$(2x+3)(x-11)=0$$

$$\boxed{x=-3/2, 11}$$

$$26. \quad \pm 12$$

$$27. \quad \pm \sqrt{11}$$

$$28. \quad \pm \sqrt{32} = \pm 4\sqrt{2}$$

$$29. \quad x^2=27$$

$$x = \pm \sqrt{27}$$

$$x = \pm 3\sqrt{3}$$

$$32. \quad x-5 = \pm 5$$

$$x = 5 \pm 5$$

$$x = 10, 0$$

$$33. \quad x+2 = \pm \sqrt{14}$$

$$x = -2 \pm \sqrt{14}$$

$$34. \quad x+9 = \pm \sqrt{24}$$

$$x = -9 \pm 2\sqrt{6}$$

$$35. \quad 2x-1 = \pm \sqrt{18}$$

$$2x = 1 \pm 3\sqrt{2}$$

$$x = \frac{1 \pm 3\sqrt{2}}{2}$$