

(Black workbook p.159-160)

$$\textcircled{1} \quad y-3=2(x+1)$$

$$y=2x+5$$

$$\textcircled{4} \quad y+10=\frac{3}{4}(x-8)$$

$$y=\frac{3}{4}x-16$$

$$\textcircled{2} \quad y-6=-3(x-2)$$

$$y=-3x+12$$

$$\textcircled{5} \quad y=-5x+9$$

$$y=-5x-2$$

parallel

$$\textcircled{3} \quad y-12=-\frac{1}{3}(x+3)$$

$$y=-\frac{1}{3}x+11$$

$$\textcircled{7} \quad y=-4x+14$$

$$y=\frac{1}{4}x+14$$

perpendicular

$$\textcircled{8} \quad y = \frac{6}{7}x + 4$$

$$y = -\frac{6}{7}x - 5$$

neither

⑨ never

⑩ discuss

$$\textcircled{12} \quad y + 2 = \frac{1}{3}(x - 6)$$

$$y = \frac{1}{3}x - 4$$

$$\textcircled{13} \quad y - 7 = -2(x - 2)$$

$$y = -2x + 11$$

$$\textcircled{14} \text{ old } \quad y = -x + 6$$

$$\text{new } \quad y + 6 = 1(x + 5)$$

$$y = x - 1$$

$$\textcircled{12} \quad y = -3x + 4 \quad \text{given}$$

$$m = -3$$

$$m = \frac{1}{3} \quad \text{perpendicular}$$

$$y = 3x - 6$$

$$m = 3$$

$$\cancel{9}x + 3y = 8$$

$$m = -3$$

$$\cancel{3}y = \frac{-9x + 8}{3}$$

$$y = -\frac{9}{3}x + \frac{8}{3}$$

$$y = -3x + \frac{8}{3}$$