Find the slope of a line parallel to each given line.

1) y = 2x +4

3) y = 4x – 5

5) x − y = 4

7) 7x + y = − 2

2) y = − 2/3 x + 5

4) y = − 10/3 x − 5

6) 6x − 5y = 20

8) 3x +4y = − 8

Find the slope of a line perpendicular to each given line.

 9) x =3

11) y = − 1/3 x

13) x − 3y = − 6

15) x +2y =8

10) y = − 1/2 x − 1

12) y = 4/5 x

14) 3x − y = − 3

16) 8x − 3y = − 9

Graph the original and the new line.

17) through:(2, 5), parallel to x =0



18) through: (5, 2), parallel to y = 5 x + 4



19) through:(3, 4), parallel to y = $\frac{9}{2}$ x − 5



20) through: (1, − 1), perpendicular to y = −$\frac{3}{4}$ x + 3



21) through:(2, 3), parallel to y = $\frac{7}{5}$ x +4



22) through:( − 1, 3), perpendicular to y = − 3x − 1



23) through:(4, 2), parallel to x =0



24) through:(1, 4), parallel to y = $\frac{7}{5}$ x +2



25) through: (1, − 5), perpendicular to − x + y =1

