Finding the Equation of a Line

Find the equation of a line in both slope-intercept and standard form using the given information for each of the following.

1. slope is $\dfrac{2}{3}$, and y intercept of (0,8)

2. slope is –2, and y intercept of (0,-2)

For each of the following, you are given the slope and a point on the line.

3. $m = \dfrac{1}{2}$, (-4,5)

4. $m = \dfrac{3}{4}$, (8,-3)

5. $m = -\dfrac{2}{3}$, (-6,4)

6. $m = \dfrac{2}{3}$, (5,-2)

7. $m = -\dfrac{3}{4}$, (7,4)

8. $m = -\dfrac{5}{3}$, (4,2)

For each of the following, you are give two points that are on the line.

9. (-3,2), (4,7)

10. (3,-2), (3,5)

11. (2,4), (-4,7)

12. (-4,2), (7,2)

13. (4,-3), (-2,6)

14. (-3,2), (8,3)