THE CIRCLE GRAPH TO THE RIGHT REPRESENTS THE MARITAL STATUS OF 3000 FEMALES WHO ARE LONE HEADS OF HOUSEHOLD. USE THE CIRCLE GRAPH TO ANSWER QUESTIONS (1)-(3):

1. What percent of the women are single?

2. How many of the women are divorced?

3. If 20% of the widowed women remarry, how many remarry?

THE LINE GRAPH BELOW REPRESENTS THE ENROLLMENT AT A FLORIDA COMMUNITY COLLEGE FOR 1987-1993. USE THE LINE GRAPH TO ANSWER QUESTIONS (4)-(6):

4. In what year did the community college have the highest enrollment?

5. How many more students were enrolled in 1991 than in 1989?

6. What is the trend in enrollment from 1987 to 1993?
7. In what quadrant is (-2, -4)?

8. SELECT THE GRAPH TO THE RIGHT THAT HAS THE FOLLOWING SLOPE:
   (a) positive
   (b) negative
   (c) undefined

MATCH THE GRAPHS ON THE RIGHT AND BELOW WITH THE APPROPRIATE EQUATIONS ON THE LEFT.

9. \( y = 3x + 2 \)

10. \( y = -\frac{1}{3}x - 2 \)

11. \( y = -3x + 2 \)

12. \( y = \frac{1}{2}x - 2 \)
13. Determine without graphing if (1, -3) is on the graph of $2x - y = 5$
Write yes or no in the blank. Show work below.

14. Find the slope of the line passing through (2, -2) and (-4, -5).

15. For the equation: $y = \frac{4}{5}x - 7$

Give the slope.

Give the y-intercept.

GRAPH THE FOLLOWING:

16. $y = \frac{2}{3}x$

17. $y = 3x + 1$

18. $x = -3$
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GRAPH THE FOLLOWING:

19. \(5x - y = 2\)
20. \(X + 4y = 8\)
21. \(Y - 2 = 2\)

22. Three inches on a map represent 50 miles. How many miles are represented by 5 inches? (If remainder, use fraction.)

23. \(W\) varies inversely as the square of \(m\). If \(W\) is 18 when \(m\) is 4, find \(W\) when \(m\) is 3. Select the equation below that could find \(W\).

(a) \(\frac{18}{9} = \frac{16}{W}\)
(b) \(\frac{18}{16} = \frac{9}{W}\)
(c) \(\frac{16}{W} = \frac{18}{9}\)
(d) \(\frac{9}{18} = \frac{16}{W}\)

24. It takes Jack 3 hours traveling 50 mph to travel to White Springs. How long will it take him to travel to White Springs travelling at 60 mph? (If necessary, round to nearest tenth.)

1. 1370
2. 8 70
3. 210
4. 1993
5. 900
6. upward or increasing
7. III
8. a 4
   b) 3
   c) 2
9. A
10. d
11. C
12. B
13. y = 5
  \(2(1) - (-5) = 5\)
  2 + 3 = 5
14. \(\frac{1}{2}\)
15. \(\frac{4}{5}\)
16. (0, -7)
17.
18.
19.
20.
21.
22. 8 3
23.
24. 2