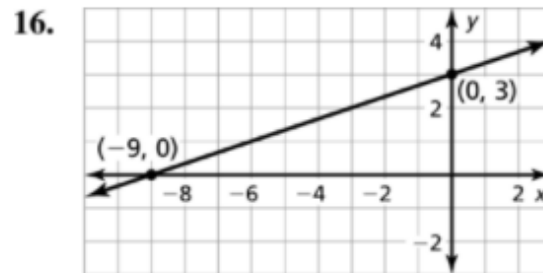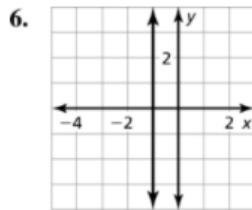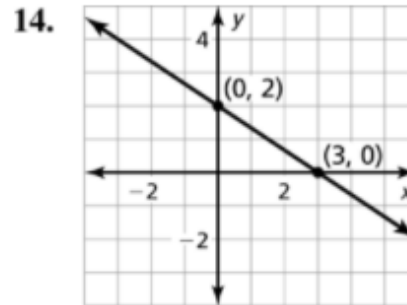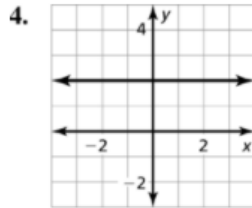## DIRECTIONS

Answers without work to check. If you cannot find your mistake then please seek help EARLY! This assignment is worth 4 pts. 1) did you complete it 2) did you show all the work 3) did you correct in pen 4) did you get 75% of the problems correct?

3.4 pg. 133 answers. Check the ones you were supposed to do for your assignment. Ask questions on any in class that you cannot figure out your mistake. Remember odd answers are always in the back of your textbook.

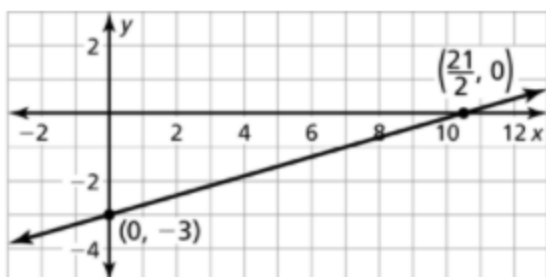**2.** $(4, -3)$; It is the only one that is not on an axis.

12. $-4; \frac{1}{2}$

4.

14.

6.

8. $8; 4$

16.

10. $3; -2$

18.

A graph showing a line passing through $(0, -3)$ and $\left(\frac{21}{2}, 0\right)$.

20.

A graph showing a line passing through $\left(-\frac{5}{3}, 0\right)$ and $(0, 5)$.

22.

A graph showing a line passing through $(0, -4)$ and $(8, 0)$.
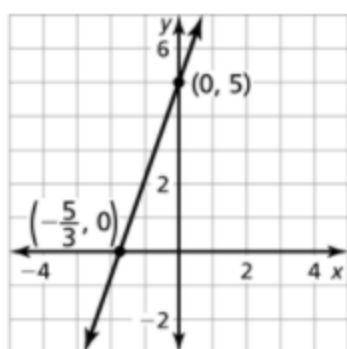
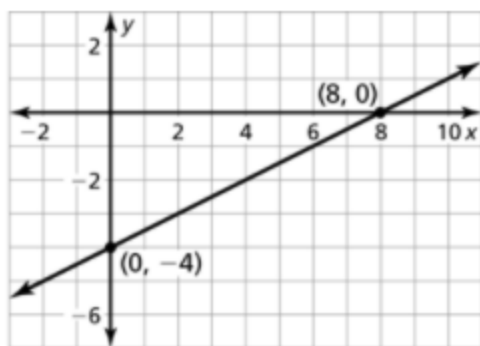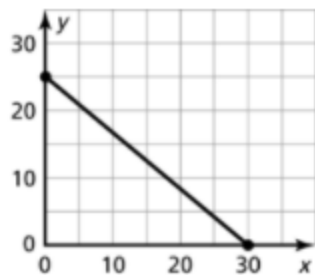**24. a.**

The *x*-intercept shows that you can buy 30 short-sleeve shirts and 0 long-sleeve shirts. The *y*-intercept shows that you can buy 25 long-sleeve shirts and 0 short-sleeve shirts.

b. 15

26. The *x*- and *y*-coordinates of the intercepts are reversed. The *x*-intercept is at (5, 0) and the *y*-intercept is at (0, 2).

28. a. 27; 18; The *x*-intercept indicates 27 two-point baskets were made if there were no three-point baskets. The *y*-intercept indicates 18 three-point baskets were made if there were no two-point baskets.

b. no; If *y* is odd, then 3*y* will also be odd. Subtracting an odd number from 54 will also be odd, so dividing this result by 2 to find *x* will never give a whole number.

c.
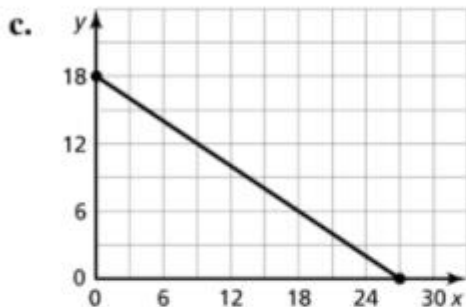
Sample answer: 24 two-point baskets and 2 three-point baskets; 9 two-point baskets and 12 three-point baskets

30. C

32. B

34. a. The *x*-intercept indicates 90 students can go if none of them choose the meal plan. The *y*-intercept indicates 60 students can go if all of them choose the meal plan.

b. domain: 0 to 90 students not choosing the meal plan; range: 0 to 60 students choosing the meal plan

40. 2

42. $\frac{5}{3}$