

Name _____

Date _____ Pd. _____

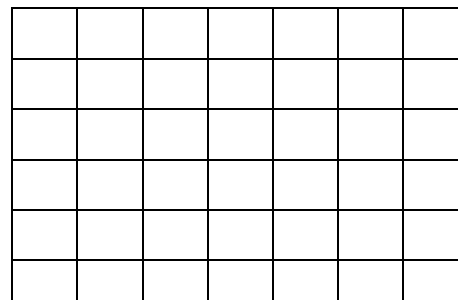
Notes: Slope-Intercept Form Day 2**Example**

MEDIA Since 1997, the number of cable TV systems has decreased by an average rate of 121 systems per year. There were 10,943 systems in 1997.

a. Write a linear equation to find the average number of cable systems in any year after 1997.

b. Graph the equation.

c. Find the approximate number of cable TV systems in 2000.

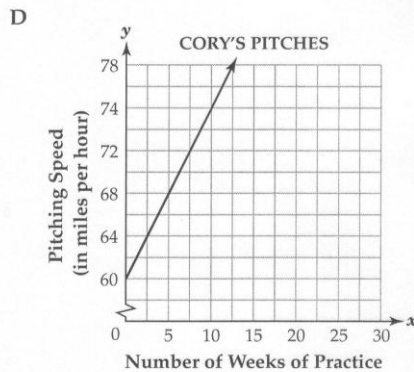
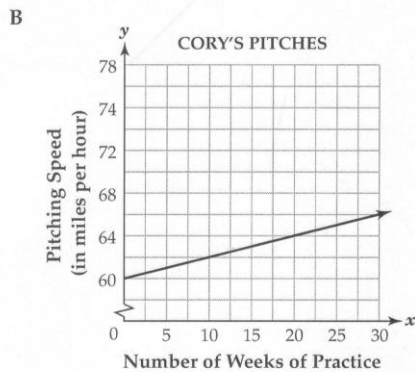
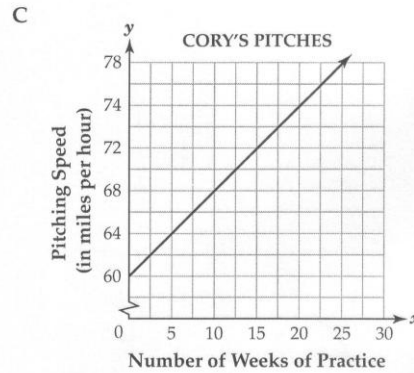
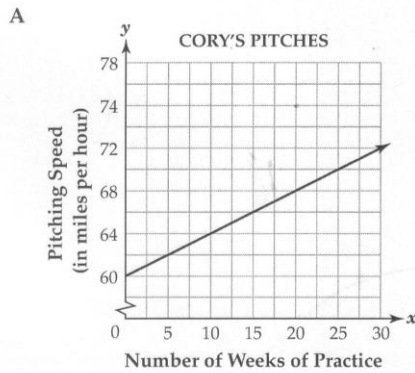


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Exit Card: Slope-Intercept Form Day 2

Cory is a baseball pitcher. Cory's pitching speed increases by 2 miles per hour every 5 weeks of practice. Which of these graphs shows the relationship between the number of weeks of practice and Cory's pitching speed?



BCR

The total cost (T) in dollars for tuition at a local college is a function of the number of credits taken. The equation $T = 120c + 150$ gives the total cost for taking c credits.

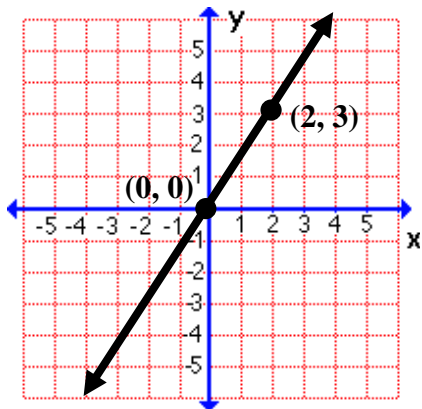
- What is the meaning of the number 120 in the context of this problem?
- What is the meaning of the number 150 in the context of this problem?
- If you can afford \$1590 for your college tuition, what is the maximum number of credits you can take? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.

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Homework: Pages 276 – 277 (24, 26, 27, 40 – 43, 47 – 49, 51, 52)

24.



Write an equation for the line.

26. Write an equation of a horizontal line that crosses the y-axis at $(0, -5)$.

27. Write an equation of a line that passes through the origin with slope 3.

40. Write an equation in slope-intercept form to model the situation:
You rent a bicycle for \$20 plus \$2 per hour.41. Write an equation in slope-intercept form to model the situation:
An auto repair shop charges \$50 plus \$25 per hour.42. Write an equation in slope-intercept form to model the situation:
A candle is 6 inches tall and burns at a rate of $\frac{1}{2}$ inch per hour.43. Write an equation in slope-intercept form to model the situation:
The temperature is 15° and is expected to fall 2° per hour during the night.

51. Which equation does *not* have a y-intercept of 5?

A $2x = y - 5$

B $3x + y = 5$

C $y = x + 5$

D $2x - y = 5$

52. Which situation below is modeled by the graph?

A You have \$100 and plan to spend \$5 each week.

B You have \$100 and plan to save \$5 each week.

C You need \$100 for a new CD player and plan to save \$5 each week.

D You need \$100 for a new CD player and plan to spend \$5 each week.

