

1. Write the function $y - 3 = \frac{2}{3}(x - 4)$ in the equivalent form most appropriate for identifying the slope and y-intercept of the function. State the slope and the y-intercept.
2. A company purchases \$24,500 of new computer equipment. For tax purposes, the company estimates that the equipment decreases in value by the same amount each year. After 3 years, the estimated value is \$9800. Write an explicit function that gives the estimated value of the computer equipment n years after purchase.
3. David compares the sizes and costs of photo books offered at an online store. The table below shows the cost for each size photo book.

Book Size	Base Price	Cost for Each Additional Page
7-in. by 9-in.	\$20	\$1.00
8-in. by 11-in.	\$25	\$1.00
12-in. by 12-in.	\$45	\$1.50

The base price reflects the cost for the first 20 pages of the photo book.

- a. Write an equation to represent the relationship between the cost, y , in dollars, and the number of pages, x , for each book size. Be sure to place each equation next to the appropriate book size. Assume that x is at least 20 pages.

7-in. by 9-in.

8-in. by 11-in.

12-in. by 12-in.

- b. What is the cost of a 12-in. by 12-in. book with 28 pages?

- c. How many pages are in an 8-in. by 11-in. book that costs \$49?