



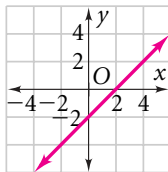
Standardized Test Prep

Multiple Choice

For Exercises 1–7, choose the correct letter.

- Which equation is equivalent to $3x + 5 - 4x = 7$?
 A. $3x + 5 = 4x - 7$ B. $3x + 5 = 4x$
 C. $x = 2$ D. $x = -2$
- Simplify the expression $15 - (6 + 3^2)$.
 F. -66 G. 0
 H. 18 I. 36
- Evaluate $-2xy$ for $x = 3$ and $y = 4$.
 A. -234 B. -24
 C. -68 D. 24
- Find the solution of the equation $-8k - 3 = 1$.
 F. $-\frac{1}{2}$ G. $-\frac{1}{4}$
 H. $\frac{1}{2}$ I. $\frac{1}{4}$
- Find the difference.

$$\begin{bmatrix} 8 & -7 \\ 3 & -5 \end{bmatrix} - \begin{bmatrix} 4 & 0 \\ -2 & -4 \end{bmatrix}$$
 A. $\begin{bmatrix} 4 & 7 \\ 5 & 1 \end{bmatrix}$ B. $\begin{bmatrix} 4 & -7 \\ 1 & -1 \end{bmatrix}$
 C. $\begin{bmatrix} 4 & -7 \\ 5 & -1 \end{bmatrix}$ D. $\begin{bmatrix} 4 & -7 \\ 1 & -9 \end{bmatrix}$
- Choose the pair of coordinates that lie on the graph shown.



- Which equation has -2 as its solution?
 A. $4x + 2 = 5$
 B. $4x - 2 = 5$
 C. $4x - 2 = 5x$
 D. $4 - 2x = 5x$
- Which expression *cannot* be simplified using the Distributive Property?
 F. $3(2 + 8)$ G. $9(14 - 18)$
 H. $5(2 \cdot 3)$ I. $(18 - 25)7$

Gridded Response

- Nice 'N' Clean Laundromat charges \$1.50 to wash each load and \$1.25 to dry each load. How much can a family with 8 loads expect to pay in dollars at this laundromat?
- The advertised price for salads at a local supermarket salad bar is \$3.49 per pound. Find the price in dollars of a salad that weighs 10 oz.
- Sue's math class made the stem-and-leaf plot below. It shows each student's daily morning travel time to school. Find the mean of the data.

Travel Time to School

0	3 5 8 8
1	0 0 0 1 1 2 2 5 6 8
2	1 2 3 7 7
3	0 5
4	5 9 9
5	
6	
7	5
7	5 means 75 minutes

- Use the formula $P = 2(w + \ell)$ to find the perimeter in centimeters of a rectangle with length 4.45 cm and width 1.3 cm.
- Find the solution to the equation $3y = 6 - 2y$.
- Jon is in charge of ordering eggs to make pancake batter for his school's all-you-can-eat pancake breakfast fund-raiser. Jon figures that 594 eggs will be needed to make enough pancakes for the number of tickets sold. How many cartons of eggs should Jon order if each carton contains 1 dozen eggs?
- Four friends were born in consecutive years. The sum of their birth years is 7798. In what year was the oldest of the four friends born?
- The Empire State Building is 1250 ft tall and it has 102 stories. It is 859 ft taller than the Park Row Building, the world's tallest building in 1900. What was the height in feet of the Park Row Building?