

# Why Did the Orchestra Get an "R" Rating?



Write the equation in the form indicated. Circle the letter next to the correct equation, then write this letter in each box containing the exercise number.

In Exercises 1-7, write the equation in slope-intercept form.

1.  $y + 8 = 3(x + 2)$       **K**  $y = 3x - 6$       **H**  $y = 3x - 2$

2.  $y - 5 = \frac{1}{2}(x + 4)$       **T**  $y = \frac{1}{2}x - 1$       **D**  $y = \frac{1}{2}x + 7$

3.  $y - 9 = -5(x - 2)$       **A**  $y = -5x + 19$       **E**  $y = -5x - 1$

4.  $y + 1 = \frac{2}{3}(x - 12)$       **Y**  $y = \frac{2}{3}x - 4$       **U**  $y = \frac{2}{3}x - 9$

5.  $y - 2 = \frac{7}{4}(x + 1)$       **I**  $y = \frac{7}{4}x + \frac{15}{4}$       **B**  $y = \frac{7}{4}x + \frac{3}{4}$

6.  $y - 4 = -\frac{1}{5}(x - 3)$       **T**  $y = -\frac{1}{5}x + \frac{23}{5}$       **S**  $y = -\frac{1}{5}x + \frac{8}{5}$

7.  $y - 7 = -\frac{8}{3}(x + 2)$       **P**  $y = -\frac{8}{3}x - \frac{29}{3}$       **V**  $y = -\frac{8}{3}x + \frac{5}{3}$

In Exercises 8-14, write the equation in standard form with integer coefficients.

8.  $y = 2x + 9$       **M**  $-2x + y = 9$       **L**  $2x - y = 9$

9.  $y = \frac{4}{3}x - 1$       **R**  $-4x - 3y = 1$       **N**  $-4x + 3y = -3$

10.  $y = -\frac{5}{8}x + 3$       **S**  $5x - 8y = 15$       **C**  $5x + 8y = 24$

11.  $y = -4x - 15$       **L**  $4x + y = -15$       **G**  $-4x + y = 15$

12.  $y = \frac{3}{10}x + 8$       **B**  $-3x - 10y = 60$       **X**  $-3x + 10y = 80$

13.  $y = -\frac{16}{5}x + \frac{4}{5}$       **O**  $16x + 5y = 4$       **E**  $-16x - 5y = 4$

14.  $y = \frac{7}{4}x - \frac{1}{8}$       **R**  $14x + 8y = -8$       **S**  $-14x + 8y = -1$



6	13	13	8	4	10	1	14	3	12	3	9	2	7	5	13	11	5	9	14
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## extra: Comparing Slopes

- Which of these two graphed lines has the greater slope?
- What is the slope of the speeding bullet graph?
- What is the slope of the Superman graph?
- Which is faster, Superman or a speeding bullet?

