# Why Did Gyro Go Into a Bakery?

For each exercise below, find the equation of the line that has the given slope and passes through the given point. Circle the letter next to the correct equation. Then write this letter in each box at the bottom of the page that contains the number of that exercise.

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|---|---|---|---|---|
| ① $m = 2$; (3, 2) | G | $y = 2x + 1$ | R | $y = 2x - 4$ |
| ② $m = -3$; (1, 4) | O | $y = -3x + 7$ | P | $y = -3x + 2$ |
| ③ $m = -5$; (−1, 3) | M | $y = -5x - 2$ | D | $y = -5x + 6$ |
| ④ $m = 3$; (−4, −7) | V | $y = 3x + 1$ | E | $y = 3x + 5$ |
| ⑤ $m = -1$; (5, −2) | U | $y = -x + 3$ | C | $y = -x - 1$ |
| ⑥ $m = \frac{1}{2}$; (6, 1) | W | $y = \frac{1}{2}x - 5$ | H | $y = \frac{1}{2}x - 2$ |
| ⑦ $m = -\frac{2}{3}$; (3, 4) | A | $y = -\frac{2}{3}x - 7$ | I | $y = -\frac{2}{3}x + 6$ |
| ⑧ $m = \frac{4}{3}$; (−2, 0) | K | $y = \frac{4}{3}x + \frac{5}{2}$ | F | $y = \frac{4}{3}x + \frac{8}{3}$ |
| ⑨ $m = -\frac{1}{4}$; (2, 1) | J | $y = -\frac{1}{4}x + \frac{3}{2}$ | D | $y = -\frac{1}{4}x - \frac{3}{8}$ |
| ⑩ $m = 4; \left(-1, \frac{1}{2}\right)$ | A | $y = 4x - \frac{2}{3}$ | T | $y = 4x + \frac{9}{2}$ |
| ⑪ $m = -2$; (0, 0) | L | $y = -2x$ | B | $y = -2x - 2$ |
| ⑫ $m = 0; \left(-5, \frac{3}{4}\right)$ | S | $y = \frac{3}{4}$ | N | $y = -5x$ |

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| 9 | 5 | 12 | 10 | 8 | 2 | 1 | 10 | 6 | 4 | 12 | 3 | 4 | 11 | 11 | 2 | 8 | 7 | 10 |

OBJECTIVE 5–n: To find an equation of a line given the slope and one point on the line.

# What Happened When Two Fruit Companies Merged?

For each exercise below, find the equation of the line passing through the given points. Circle the two letters next to the correct equation. Then write these letters in the two boxes at the bottom of the page that contain the number of that exercise.

Answers:

| | | | | |
|---|---|---|---|---|
| (1) | (1, 5) (2, 7) | (IS) $y=\frac{2}{3}x+3$ | (TH) $y=\frac{1}{2}x-4$ |
| (2) | (0, 1) (3, −8) | (AP) $y=-\frac{3}{2}x+8$ | (UI) $y=-3x+5$ |
| (3) | (2, −3) (4, −2) | (ST) $y=\frac{1}{2}x-7$ | (DE) $y=2x+3$ |
| (4) | (2, 5) (4, 2) | (CT) $y=-3x+1$ | (EY) $y=4x+7$ |
| (5) | (−3, −5) (−1, 3) | (LO) $y=-\frac{3}{2}x-4$ | (IL) $y=2x+1$ |

Answers:

| | | | | |
|---|---|---|---|---|
| (6) | (3, −1) (−6, −4) | (HA) $y=\frac{1}{2}x-1$ | (ER) $y=-\frac{3}{4}x+4$ |
| (7) | (4, 1) (−4, 7) | (IS) $y=\frac{1}{3}x+\frac{8}{3}$ | (EL) $y=-2x-1$ |
| (8) | (−1, 2) (3, 4) | (PE) $y=-x+2$ | (EA) $y=-\frac{3}{4}x+2$ |
| (9) | (−1, −4) (2, 0) | (SO) $y=\frac{4}{3}x-2$ | (AR) $y=\frac{1}{3}x-2$ |
| (10) | (3, −1) (−3, 5) | (MA) $y=\frac{1}{2}x+\frac{5}{2}$ | (FE) $y=\frac{4}{3}x-\frac{8}{3}$ |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 3 | 5 | 5 | 8 | 8 | 1 | 1 | 4 | 4 | 7 | 7 | 9 | 9 | 2 | 2 | 10 | 10 | 6 | 6 |




OBJECTIVE 5–o: To find an equation of a line given two points on that line (not using the graph).