

# What Did the Ape Think of the Grape's House?

**SHOW WORK ON SEPARATE SHEET OF PAPER!!!!!!!**

Write an equation for each of the lines described. Find your answer in the answer section and notice the two letters next to it. Print these letters in the two boxes at the bottom of the page that contain the number of that exercise

- slope is  $m$ , passes through  $(1, -1)$
- slope is  $\frac{2}{3}$  and y-intercept is 1
- passes through  $(-3, 2)$  and  $(-1, -2)$
- passes through  $(-4, 5)$  and  $(2, -4)$
- passes through  $(-3, -4)$  and  $(0, 5)$
- Passes through  $(-2, 5)$  and  $(2, 1)$
- Slope is  $\frac{4}{3}$  and passes through  $(0, 0)$
- Slope is  $-\frac{1}{4}$  and passes through  $(4, 1)$
- Slope is zero and the y-intercept is  $-3$
- Slope is  $\frac{2}{5}$  and passes through  $(5, -3)$

Answers:

- |                              |                              |                             |
|------------------------------|------------------------------|-----------------------------|
| (DE) $y = -\frac{1}{4}x + 2$ | (TT) $y = \frac{2}{5}x$      | (EA) $y = -2x + 3$          |
| (SA) $y = \frac{4}{3}x - 1$  | (NE) $y = \frac{2}{3}x + 1$  | (VI) $y = \frac{2}{5}x - 5$ |
| (TH) $y = -\frac{3}{2}x + 2$ | (OU) $y = -x + 3$            | (TH) $y = -2x - 4$          |
| (AS) $y = 2x - 3$            | (GH) $y = -\frac{3}{2}x - 1$ | (TI) $y = \frac{4}{3}x$     |
| (HE) $y = 3x + 5$            | (TW) $y = -3$                | (SH) $y = \frac{2}{3}x + 5$ |

5	5	3	3	6	6	4	4	7	7	9	9	1	1	8	8	10	10	2	2
				O	U														

C-44

OBJECTIVE 5-1: To find an equation of a line given two points on the line (using the graph)

#6

$$m = \frac{1-5}{2-(-2)} = \frac{-4}{4} = -1 = m$$

$$y = mx + b$$

$$1 = (-1)(2) + b$$

$$1 = -2 + b$$

$$+2 \quad +2$$

Final Answer:  $y = -1x + 3$

$$3 = b$$