

MAT 050 Practice Test Chapter 10

All test answers are to be in simplest form. A calculator may be used.

Cell phones, iPads, and other electronic devices with scanning or photo ability may NOT be used.

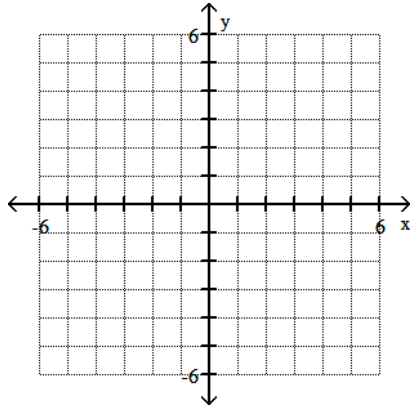
No notes, no books, no homework may be used while taking this test.

Students should be familiar with and able to use the following formulas.

$$m = \frac{y_2 - y_1}{x_2 - x_1} \quad y - y_1 = m(x - x_1) \quad y = mx + b \quad Ax + By = C$$

Make a scatterplot by plotting the four points.

- 1) (5, 5), (-4, 5), (-1, -2), (5, -1)



State the quadrant in which the point lies.

- 2) (-17, 17)
3) (9, -9)
4) (-10, 0)

Determine whether the ordered pair is a solution for the given equation.

- 5) $\frac{1}{2}x + \frac{1}{3}y = 4$, (4, 6)
6) $0.05x - 2y = 28$; (400, 4)

Complete the table of values for the given equation.

- 7) $4x + y = -24$;

x	-7	0	1
y			
- 8) $3x - 4y = -12$;

x			
y	3	0	6

Graph the given equation. Find the slope of the line and the x- and y-intercepts.

- 9) $-6x - 12y = 12$
10) $y = -5x + 15$
11) $x = 7$
12) $y = -6$

If possible, find the slope of the line passing through the two points.

- 13) (-5, -9), (6, -1)
14) (2, -2), (2, -7)
15) (3.7, 4.2), (3.2, 2.7)
16) (-3, 8), (7, 8)

Sketch a line passing through the point and having slope m.

- 17) (0, 6), $m = -3$
18) (-4, -9), $m = \frac{2}{3}$

Write the equation in slope-intercept form. Give the slope and y-intercept of the line.

- 19) $5x + 7y = 24$
20) $15x - 4y = 3$

Find the equation of the line satisfying the given conditions. Write the equation in the indicated forms.

- 21) Slope -4, passing through (-3, 4)

Point-Slope Form:

Slope-Intercept Form:

- 22) Passing through (-4, 4) and (-2, 10)

Point-Slope Form:

Slope-Intercept Form:

- 23) Parallel to $y = 2x - 9$, passing through (1, -5)

Point-Slope Form:

Slope-Intercept Form:

- 24) Perpendicular to $y = \frac{1}{3}x + 19$,

passing through the point (-5, -6)

Point-Slope Form:

Slope-Intercept Form:

- 25) Given the line whose equation is
 $y = -2x + 6$

Identify the slope of the given line:

Identify the slope of a line parallel to the given line:

Identify the slope of a line perpendicular to the given line:

Find an equation of a line satisfying the following condition.

- 26) Vertical, passing through (-2, 5)

- 27) Horizontal, passing through (-1, 6)