

Practice Exam #2

Math 081

* Solve each proportion for x :

① $\frac{x}{4} = \frac{12}{16}$

② $\frac{3}{8} = \frac{x}{14}$

* Solve each equation for the given variable:

③ Solve for B :

$$A = BC - D$$

④ Solve for w :

$$2l + 2w = p$$

* Substitute the values into the formulas to solve:

⑤ If $V = \frac{bh}{2} \cdot a$, solve for V if $b=4$, $h=8$, $a=5$

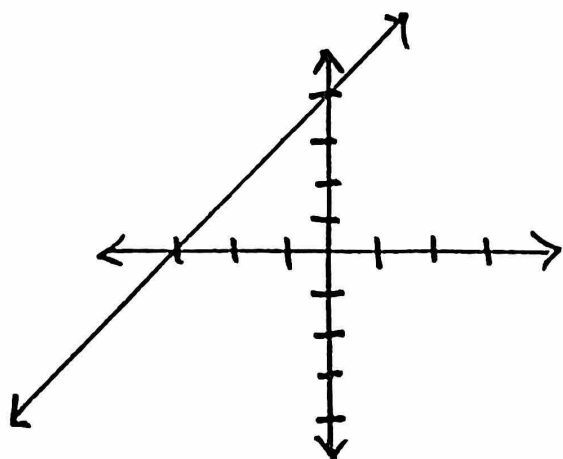
⑥ Convert 38% into a decimal.

⑦ Convert 1.03 into a percent.

⑧ Convert $\frac{16}{25}$ into a percent.

⑨ Find the slope of a line that contains the two points $(-2, 4)$ and $(4, 16)$.

⑩ What is the x-intercept and y-intercept of the line shown?

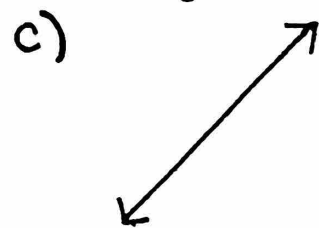
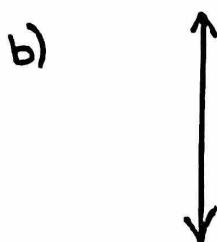
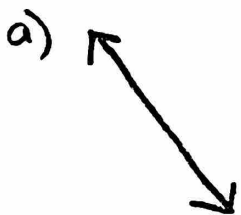


⑪ What is the equation of a line with a slope of -3 and a y -intercept of 8 ?

⑫ What is the equation of a line that has a slope of 4 and passes through $(-2, 10)$?

⑬ What is the equation of line that passes through the two points $(-8, 5)$ and $(4, -1)$?

⑭ Label each lines slope as positive, zero, negative, undefined.



15. Graph and label each of the points below with the corresponding letter.

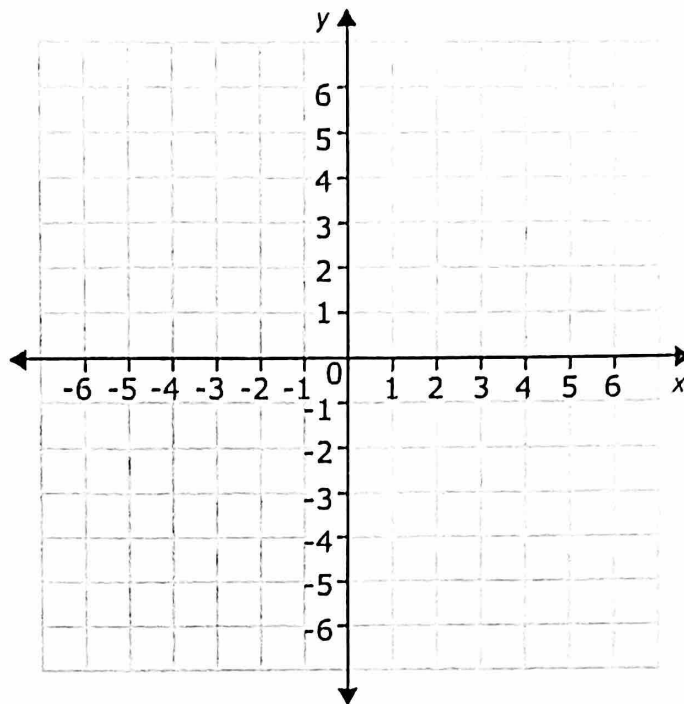
A) (-4, 6)

B) (3, -2)

C) (0, -5)

D) (-4, -3)

E) (5, 0)



16. Graph the lines below on the coordinate plane.

$$y = (-3/4)x + 5$$

$$2x + 4y = 16$$

17. At which point do the two lines intersect?

