



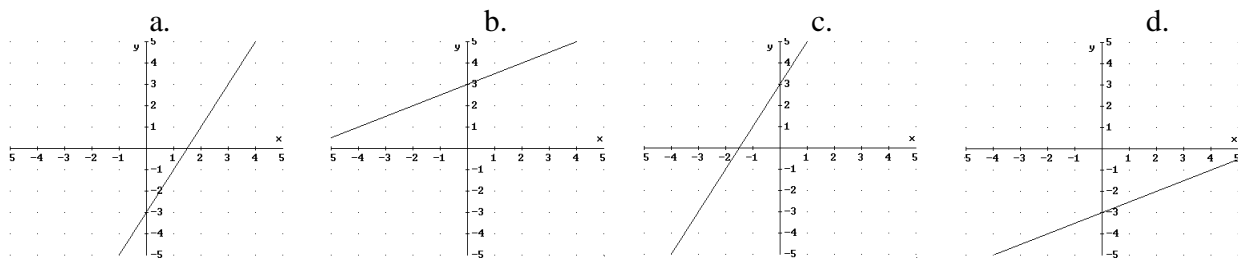
6) Using standard order of operations, compute  $2 - 5(2 - 4)^2 + 8 \div 2$ .

- a. -14
- b. -8
- c. -2
- d. 16
- e. 26
- f. I don't know

7) If  $x = -3$  and  $y = 4$ , find the value of  $5y - 4x^2$ .

- a. -124
- b. -16
- c. 8
- d. 56
- e. 64
- f. I don't know

8) Graph the line  $y = 2x - 3$ .



- e. None of these
- f. I don't know

9) Find the slope of the line containing the points  $(-4, 5)$  and  $(1, 0)$ .

- a. -5
- b. -1
- c. 0
- d.  $-\frac{3}{5}$
- e.  $-\frac{5}{3}$
- f. I don't know

10) Solve the equation  $A = BC + D$  for  $B$ .

- a.  $B = A - D - C$
- b.  $B = (A - D)C$
- c.  $B = \frac{A - D}{C}$
- d.  $B = \frac{A}{C} - D$
- e. None of these
- f. I don't know



17) A 42-inch wire is to be cut into two pieces. One piece must be exactly twice as long as the other piece. How long should the shorter piece be?

- a. 7 inches
- b. 14 inches
- c. 21 inches
- d. 28 inches
- e. None of these
- f. I don't know

18) It is known that the relationship between Celsius and Fahrenheit is linear; also,  $0^{\circ}\text{C} = 32^{\circ}\text{F}$  and  $100^{\circ}\text{C} = 212^{\circ}\text{F}$ . Find an equation that converts Celsius to Fahrenheit.

- a.  $F = C + 32$
- b.  $F = 1.8 C + 32$
- c.  $C = 1.8 F + 32$
- d.  $F = C + 112$
- e.  $F = 1.8 C$
- f. I don't know

After completing this placement test, you can grade it by going to the solutions found here:  
[http://mth.pdx.edu/programs/placement/Placement\\_Questions\\_Solutions.asp](http://mth.pdx.edu/programs/placement/Placement_Questions_Solutions.asp)

If you scored a 13 or better, then you should be prepared to take MTH 95, and may even want to take the MTH 95/111 Placement Test to see if a higher level mathematics course is more appropriate for you.

If you scored between 9 and 12, then you should be prepared to take MTH 70; otherwise, you may want to consider taking a course below MTH 70 at a community college to help you prepare for MTH 70 at Portland State University.