

Math 72 (Introductory Algebra) Entrance Exam Review - Sample

Use this sample to help determine your placement. The Entrance Exam Review is online at: <http://www.wamap.org/diag> (click on GRCC Entrance Exam Review). Password is: **grccee**. Entrance Exams are administered in the GRCC Assessment Center (ZWC building). The exams are online utilizing the WAMAP system.

- 1) Use the rule for order of operations to simplify the expression as much as possible:

$$2[8 + 3(4 \cdot 5 - 4)]$$

- 2) Find the value for: $(-2)(-5) + (-4)^2$

- 3) Find the value of the expression: $-4 \cdot |a - b|$ if $a = 4$ and $b = -2$

- 4) Evaluate $(x - y)^2$ if $x = 3$ and $y = 6$.

- 5) Evaluate $3xy^3 - 5x^3y$ when $x = -4$ and $y = 3$

- 6) Simplify the expression: $\frac{2 - 2(-3)}{2}$

- 7) Simplify: $4x - 7y - 6x - 15y$

- 8) Solve for m: $m - 3 = -17$

- 9) Solve for x: $\frac{4}{7}x = 20$

- 10) Solve for x: $-3x - 5 = 1$

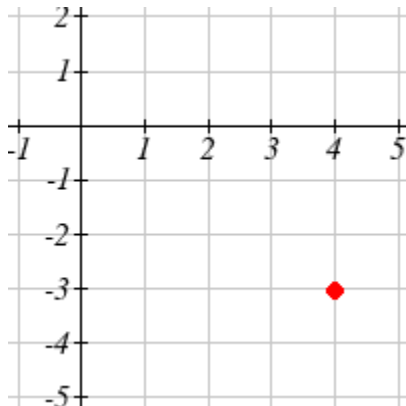
- 11) Simplify completely: $10x - 2(6x - 7)$

- 12) A shirt was originally priced at \$75. The store is having a 35% off sale.

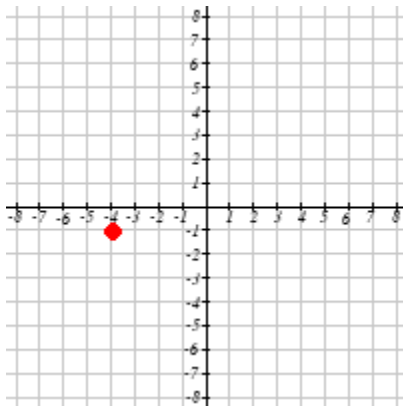
What is the cost of the shirt with the discount?

- 13) Simplify: $(5x)^2$

14) Find the coordinates of the point in the graph below.



15) The point graphed below is in what quadrant?



16) Subtract the 2 polynomials: $(5x^3 - 7x^2 + 8x - 13) - (2x^4 + x^3 - 5x^2 - 13x + 6)$

17) The area of a rectangle is 286 square meters. If one of the sides is 13 meters long, how long is the other side?

18) Determine the average (arithmetic mean) of:
7, 7, 7, 7, 2, 3, 3, 3

19) Simplify: $(6y^7)(2y^5)^3$

20) A Norman window has the shape of a rectangle capped with a semicircle, as shown below



If the window is 22 inches wide, and the rectangular portion of the window is 32 inches tall, find the area of the window.

