

8th Grade Homework #1A

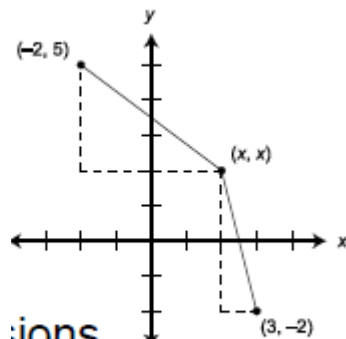
Due Date: February 02, 2014

1.

The sum of the digits of a two-digit positive integer is 9. The difference between this integer and a two-digit integer containing the digits reversed is 27. We must find the product of the two digits.

2.

. The point (x, x) is equidistant from $(-2, 5)$ and $(3, 2)$. What is x ?



3.

In one roll of four standard six-sided dice, what is the probability of rolling exactly three different numbers?

4.

Triangle MNO is an isosceles triangle with $MN = NO = 25$. A line segment drawn from the midpoint of MO perpendicular to MN, intersects MN at point P with $NP:PM = 4:1$. We must find the length of the altitude drawn from point N to side MO.

