

MATH 7 - HANDOUT 2

1. REVIEW PROBLEMS

1. Solve the following equations:

$$(a) 2x - 22 = 3(1 - x) \quad (b) 1 - \frac{2}{7}x = \frac{1}{7}x \quad (c) 1 - 8(1 - x) = 7x - 8$$

2. Draw the graph of the function $x - y = 3$

3. Draw the graph for $y = |x - 2|$

4. Solve: $|x - 2| = 5$

5. Simplify: $\frac{(x^3y)^2 \cdot x^2y^3}{x^3y^2}$

6. Point M has coordinates $(5, 7)$.

(a) Find coordinates of the point M_1 obtained from M by reflection around the x -axis

(b) Find coordinates of the point M_2 obtained from M by reflection around the diagonal line.

7. Rationalize the denominator: $\sqrt{\frac{2}{3}}$

8. What is the diagonal length of a square with side 3?

9. What is the sum of $1 + 2 + 3 + \dots + 100$?

10. What is the sum of the first 40 terms of an arithmetic sequence 2, 5, 8, 11, ...?