MATH 4. Classwork # 14

1. **Positive or negative value of _m_ will make the following equalities true?**

$\|m\| = m$	$m = -m$
$\|m\| = -m$	$m + \|m\| = 0$
$-m = \|-m\|$	$m + \|m\| = 2m$
$m = \|-m\|$	$m - \|m\| = 2m$

2. **Numbers a, b and c are marked on the number line below:**

Which of the following statements are true?

a. $a \cdot b < b \ or \ a \cdot b > b$ **b.** $a \cdot b \cdot c < a \ or \ a \cdot b \cdot c > a$ **c.** $-a \cdot c < c \ or -a \cdot c > c$

3. Rewrite without the parenthesis:

a. $a - \big(b - (c + 4)\big) =$
b. $x - \big(3 - (x + 6)\big) =$
c. $a - \big(a - (a - 10)\big) =$
d. $c - \big(c - (c - d)\big) =$

Complex fractions:

$$\frac{6}{1 - \frac{1}{3}} =$$

$$\frac{\frac{1}{2} + \frac{3}{4}}{\frac{1}{2}} =$$

$$\frac{1 - \frac{1}{6}}{2 + \frac{1}{6}} =$$

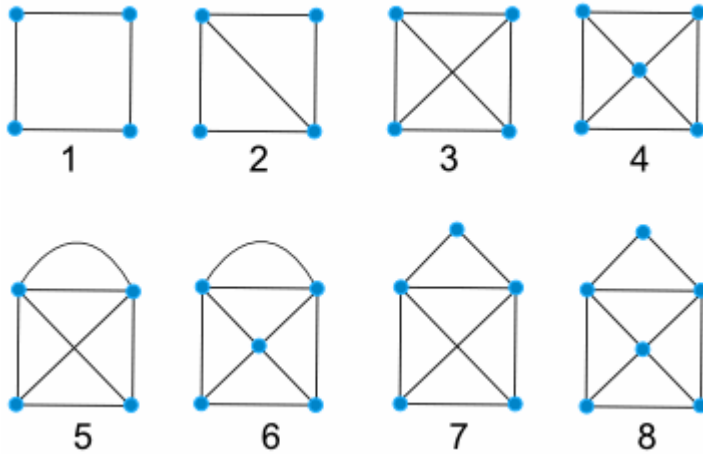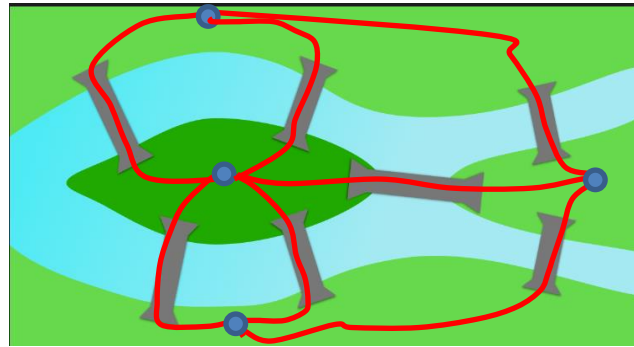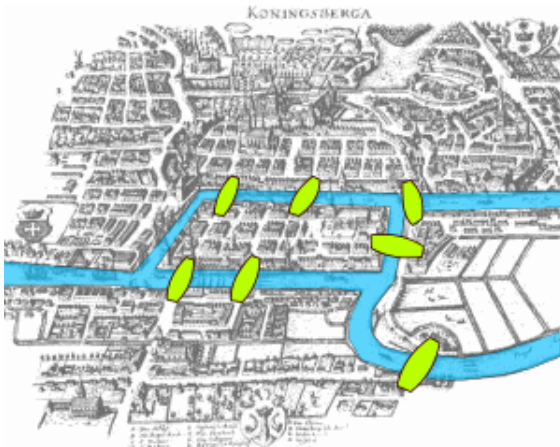$$\frac{\frac{7}{10} + \frac{1}{3}}{\frac{7}{10} + \frac{1}{2}} =$$

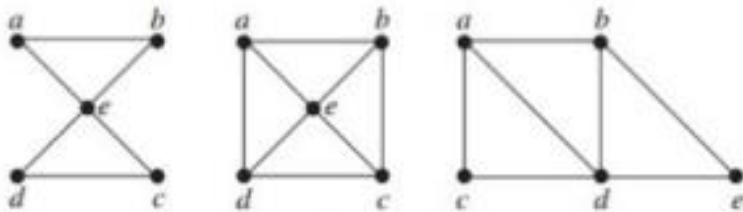**Solve the following equations:**

$$3 - \frac{5}{7}t = 1 - \frac{3}{7}t;$$

$$\frac{1}{8}u - 2 = \frac{5}{8}u + 1$$

GRAPHS

The old town of Königsberg has seven bridges:

1   2   3   4

5   6   7   8

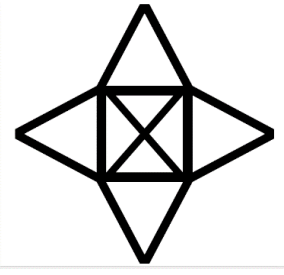**Which of the Graphs have Eulierian path and wich have Eulerian Circuit?**

1. G_1 2. G_2 3. G_3 4. G_4 5. G_5