Course: Algebra II | **Document:** | **LIVE Stream 1**

Topic: Semester A Exam Review: Part 1 | **Reference Number:** | **2149-4**

Subtopic:

https://youtube.com/c/MrMattTheTutor

1) FOIL the following binomials:
    a. $(2x + 3)(3x - 1)$
    b. $(3x - 5)(5X + 2)$

2) FOIL the following binomials:
   a. $(8x + 1)(3x + 4)$
   b. $(4x + 4)(6x - 4)$

3) FOIL the following binomials:
   a. $(2x - 5)(6x + 3)$
   b. $(4x + 6)(2x - 4)$

4) Calculate the value of the following fractions:

a. $\frac{3}{5}+\frac{6}{7}$

b. $\frac{8}{9}-\frac{5}{6}$

5) Calculate the value of the following fractions:

a. $(\frac{5}{3}-\frac{5}{6})(\frac{1}{5}+\frac{3}{10})$

b. $\frac{4}{5}\div\frac{2}{3}$

6) Calculate the value of the following fractions:

a. $(\frac{7}{3} - \frac{1}{6})(\frac{3}{4} + \frac{5}{12})$

b. $\left(\frac{7}{8} \div \frac{3}{5}\right) - \frac{1}{6}$

7) Solve for the missing variable in the following equations:

a. $\frac{1}{2}x + \frac{1}{6}x - \frac{1}{8}x = 10$

b. $\frac{x}{3} + \frac{x}{5} - \frac{x}{12} = 20$

8) Solve for the missing variable in the following equations:

a. $\frac{1}{6}x + \frac{1}{8}x - \frac{1}{9}x = 5$

b. $\frac{x}{7} + \frac{x}{2} - \frac{x}{4} = 2$

9) Solve for the missing variable in the following equations:

a. $\frac{1}{12}x + \frac{1}{16}x - \frac{1}{18}x = 120$

b. $\frac{x}{20} + \frac{x}{25} - \frac{x}{75} = 100$