S.M.ART School **MAB2 HW due 04-29-2024**

R1 $\sqrt{2.56}$

R2 $\sqrt{2,560}$

R3 $\sqrt{0.00121}$

R4 $\sqrt{12.1}$

W1 Chris and Mia live 10 miles from each other. They started to move towards each other simultaneously. Chris's speed is 4 mph. When they met it was 4 miles from Mia's house. How fast Mia goes in miles per hour?

W2 Train left station A at 3 pm moving with the speed 80 mph. In an hour another train left station A with the speed 75 mph moving in the same direction. What is the distance between them at 10 pm? What will be the distance between them in N hours after 3 pm?

W3 At 6:00 am a car left city A and headed for city B at 80 km/h. At 9:00 am another car left city B 11and headed for city A at 90 km/h. At what time did cars meet if the two cities are 580 km apart?

G1. If 27 is added to a two digits number, the result is equal to a number obtained by reversing the digits of original number. Find the original number.

Solve Linear Equations

E1 $5*x / 4 - (3*x - 3) / 18 = 9/10$

E2 $5 / (2*x) - 4 / (6*x) - 3 / (8*x) = 5/12$

E3 $2 / (3*x) - 3 / (7*x) + 1 / (6*x) = 2/7$

E4 $7 / (3*x - 2) + 9/(6*x - 4) = 23 / 26$

C1 Compute.

Label every operation you must execute. Make sure the order of labels corresponds to the Order of Operations principles.
Execute each operation according to the order of labels.
Provide the result of each operation.
Symbol ":" stands for division. Coma "," means decimal point.

$$\frac{2\frac{1}{6}+1,5}{2\frac{1}{6}-1,5}+\frac{\frac{2}{13}\cdot\left(5,84+7\frac{4}{25}\right)}{\frac{8}{9}:4\frac{4}{9}-0,05}-\frac{\left(\frac{19,2}{0,12}-3,4\right):0,9}{1,2:\frac{1}{29}\cdot\frac{1}{2}}-29,9$$