

Name: _____

M\$3A Classwork 5

1. Solve by completing the square: $\frac{x}{x+3} + 1 = \frac{5}{x}$

2. Solve by using the quadratic formula:

$$\frac{5}{x} - \frac{2x}{x+4} = 1$$

3. A garden measuring 12 meters by 16 meters is to have a pedestrian pathway installed all around it, increasing the total area to 285 square meters. What will be the width of the pathway?

4. Gary and his brother Mike run a lawn service and do all the mowing for the local high school. It takes Mike nine hours more than Gary to do the mowing. Working together they can complete the job in twenty hours. How long would it take each, working alone, to do the mowing?