

$$\frac{x}{x-2} = \frac{6}{x} + \frac{4}{x(x-2)}$$

$$2x - 5\sqrt{x} - 7 = 0$$

$$4x^4 - 13x^2 + 9 = 0$$

$$(x+2)^2 + 6(x+2) + 8 = 0$$

$$x^{-2} - x^{-1} - 6 = 0$$

$$2x^{2/3} - 3x^{1/3} - 2 = 0$$

The average speed of a passenger train is 25 miles per hour more than the average speed of a car. The time required for the car to travel 300 miles is 2 hours more than the time required for the train. Find the average speed of the car.

Terri and Tommy run a flea market. It takes Terri 2 hours longer to put the merchandise out than it does Tommy. If they can put the merchandise out together in $1 \frac{7}{8}$ hours, how long would it take each working alone?

Suppose that an open box is to be made from a square sheet of cardboard by cutting out squares from each corner as shown and then folding along the dotted lines. If the box is to have a volume of 300 cubic cm, find the original dimensions of the sheet of cardboard.

