9 The sum of 10 numbers in an arithmetic progression is 190; the sum of the 4th and 8th terms exceeds the fifth term by 25. Find the first four terms of the progression. \[12\frac{1}{2}\]

10 A grocer wishes to mix 15 pounds of coffee costing 28 cents a pound with another grade of coffee costing 35 cents a pound in order to have a mixture that he can sell for 40 cents a pound. How many pounds of the better grade coffee must be used if the grocer is to make a profit of 25\% on the cost? \[12\frac{1}{2}\]

11 a Plot the graph of the equation \[x^2 - 3x + 7 = y\text{ from } x = -3\text{ to } x = 2\] \[8\frac{1}{4}\]

b From the graph determine the nature of the roots of the equation \[x^2 - 3x + 7 = 0\] and estimate one of them correct to the nearest tenth. \[4\]