

QUESTION 1: EQUATIONS, WORD PROBLEMS AND MANIPULATION

- 1.1 A taxi driver takes a total of R360 in fares per trip with a full load of passengers. If he increases his fare by R10 per passenger, he can make the same amount when carrying three passengers fewer. Determine:

1.1.1 The total increased fare amount (3)

1.1.2 The original number of passengers per trip. (3)

- 1.2 Make x the subject of the formula:

$$\log\left(\frac{a^x}{b}\right) = D \quad (3)$$

- 1.3 Solve for x :

$$\frac{3}{x(x+1)} + \frac{2}{(x+1)(x-2)} = \frac{1}{x(x-2)} \quad (4)$$

[13]

QUESTION 2: EQUATIONS, WORD PROBLEMS AND MANIPULATION

- 2.1 Make h the subject of the formula:

$$M = \frac{K(H^2 + h^2)}{B} \quad (4)$$

- 2.2 Solve for x :

$$\frac{x-2}{x-1} - \frac{5}{x^2-4x+3} - \frac{2}{3-x} = 1 \quad (7)$$

- 2.3 The perimeter of a rectangular triangle is 40 m. Determine the length of the hypotenuse and the area of the rectangular triangle if the length of one of the other two sides of the triangle is 8m.

(6)

[17]

QUESTION 3: EQUATIONS, WORD PROBLEMS AND MANIPULATION

- 3.1 John runs from A to B uphill with an average speed of 8 km/h, and returns from B to A downhill with an average speed of 12km/h. What was his average speed during the total distance?

HINT: Distance = (average speed) \times time (4)

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