SECTION A

QUESTION 1

(a)   Solve for x:

    (1) $(x+2)^2 = 3x(x-2)$
        giving your answers correct to one decimal digit.   (5)

    (2) $x^2 - 9x \geq 36$.   (4)

    (3) $3^x - 3^{x-2} = 72$.   (4)

(b)   Given: $(2m-3)(n+5) = 0$.

    Solve for:

    (1) n if $m = 1$.   (1)

    (2) m if $n \neq -5$.   (1)

    (3) m if $n = -5$.   (2)
        [17]

QUESTION 2

(a)   Evaluate: $\displaystyle\sum_{k=2}^{6} \frac{2^{k-1}}{k}$.   (3)

(b)   The number of members of a new social networking site doubles every day.
On day 1 there were 27 members and on day 2 there were 54 members.

    (1)   Calculate the number of members there were on day 12.   (2)

    (2)   The site earns half a cent per member per day. Calculate the amount of
        money that the site earned in the first 12 days.
        Give your answer to the nearest Rand.   (4)

(c)   Gina plans to start a fitness programme by going for a run each Sunday.
On the first Sunday she runs 1 km and plans to increase the distance by
750 m each Sunday. When Gina reaches 10 km, she will continue to
run 10 km each Sunday thereafter.

    (1)   Calculate the distance that Gina will run on the 9th Sunday.   (3)

    (2)   Determine on which Sunday Gina will first run 10 km.   (2)

    (3)   Calculate the total distance that Gina will run over the first 24 Sundays.   (4)
        [18]

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