QUESTION 1

1.1 Solve for x in each of the following:

1.1.1
$$x(2x+1)=0$$
 (2)

1.1.2
$$5x^2 + 2x - 6 = 0$$
 (correct to TWO decimal places) (3)

1.1.3
$$2x^2 - 2 \ge 3x$$
 (4)

1.1.4
$$\sqrt{2x+5} - \frac{3}{\sqrt{2x+5}} = -2$$
 (6)

1.2 Solve for x and y simultaneously:

$$y + x = 2$$
 and $x^2 + 3xy + 8 = 0$ (6)

- 1.3 The roots of the equation f(x) = 0 are $x = \frac{4 \pm \sqrt{16 4m(-m + 5)}}{2m}$ Determine the values of m for which the roots will be non-real. (4)
- 1.4 Show that the maximum value of $\sqrt{-x^2+4x+12}$ is 4. (4)

QUESTION 2

- 2.1 Simplify fully, WITHOUT using a calculator: $\frac{2^{s-3} 3 \cdot 2^{s+1}}{2^{s-2}}$ (4)
- 2.2 Solve for x:

$$2.2.1 2 - 16x^{-\frac{1}{2}} = 0 (3)$$

$$2.2.2 4s + 8 = 9.2s (4)$$

$$2.2.3$$
 $\sqrt[4]{9} = 243$ (3)

2.3 Simplify fully:

$$\frac{\sqrt{p^2 - q^2} \times (p + q)^{\frac{5}{2}}}{(p - q)^{\frac{1}{2}}} \quad \text{if} \quad p \neq q \tag{3}$$
[17]

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