QUESTION 1

1.1 Solve, for $x \in \mathbb{R}$:

(a) $2e^{x} - 7 + 6e^{-x} = 0$, expressing your answers in exact form using logs

$\therefore 2e^{2x} - 7e^{x} + 6 = 0$

$\therefore (2e^{x} - 3)(e^{x} - 2) = 0$

$\therefore e^{x} = \frac{3}{2}$ or $e^{x} = 2$

$\therefore x = \ln\frac{3}{2}$ or $x = \ln 2$

(b) $|2x + 3| = 5x - 2$

$|2x + 3| = 5x - 2$

$2x + 3 = 5x - 2$ or $2x + 3 = -(5x - 2)$

$\therefore 5 = 3x$ or $7x = -1$

$\therefore x = \frac{5}{3}$ or $x = -\frac{1}{7}$

a check reveals that $x = \frac{5}{3}$ only

(c) Solve $\frac{(-x^2 - 5)(x^2 - 16)}{|x + 3|(x + 2)} \geq 0$

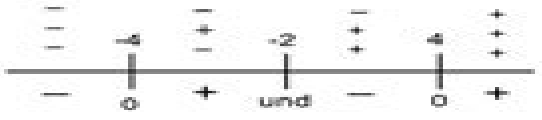
$\frac{(-x^2 - 5)(x^2 - 16)}{|x + 3|(x + 2)} \geq 0$

$\therefore \frac{(-x^2 - 5)(x^2 - 16)}{(x + 2)} \geq 0$

$\therefore \frac{(x^2 - 16)}{(x + 2)} \leq 0$

$\therefore \frac{(x - 4)(x + 4)}{(x + 2)} \leq 0$

$\therefore x \leq -4$ or $-2 < x \leq 4$



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