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

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

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

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

$\therefore x = \ln\dfrac{3}{2}$ 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 $7x = -1$

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

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

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

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

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

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

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

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

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