Question of the Day

The average human heart rate is 72 beats per minute (bpm). How many heart beats would the average human have in a week? Write your answer in scientific notation.

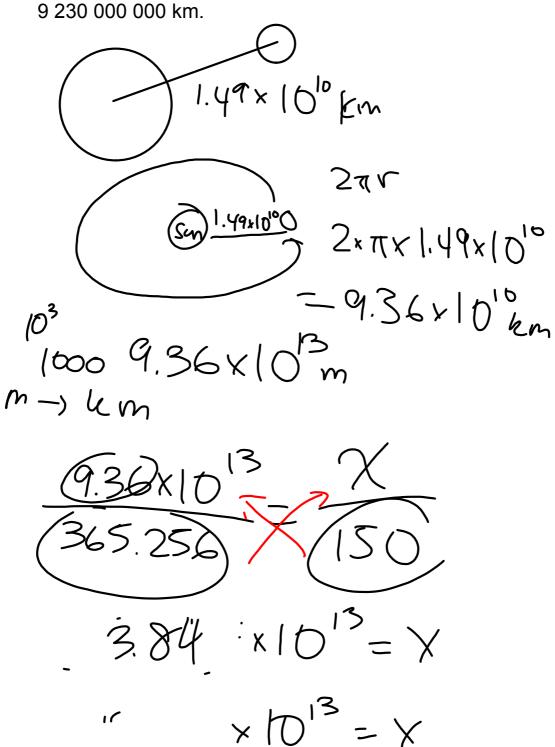
1. a)
$$6x^2 + 14x + 8$$
 b) $2a^4 + 2a^2b + a^2c + bc$

2. a)
$$x^2 + x - 12$$
 b) $2x^4 - 7x^2 + 6$ c) $x^2 - 4x + 4$

p. 88 #26

Given that it takes the Earth 365.256 days to completely orbit the sun, find:

- a) The distance, in metres, that the Earth travels in 150 days.
- b) The number of days it takes the Earth to travel



p. 98 #12

Thomas has a rectangular garden of x m by 4x m. To increase his production, he increases the garden's width by (3x - 2) m and its length by (x + 1)m. Find an algebraic expression corresponding to:

- a) The area of the enlarged garden.
- b) Half the area of the enlarged garden.
- c) Quadruple the area of the initial garden decreased by 10.

HW p. 87 #22, 23, p. 99 #19