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A variable force of $7x^{-2}$ pounds moves an object along a straight line when it is x feet from the origin. Calculate the work done in moving the object from $x = 1$ ft to $x = 18$ ft. (Round your answer to two decimal places.)

5.61 ☒ 5.61 ft-lb

Solution or Explanation

$$W = \int_1^{18} F(x) dx = \int_1^{18} 7x^{-2} dx = 7 \left[-x^{-1} \right]_1^{18} = 7 \left(-\frac{1}{18} + 1 \right) = 5.61 \text{ ft-lb}$$

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A force of 14 lb is required to hold a spring stretched 2 in. beyond its natural length. How much work W is done in stretching it from its natural length to 8 in. beyond its natural length?

W = 56/3 ☒ 56/3 ft-lb

Solution or Explanation

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A spring has a natural length of 22 cm. If a 22-N force is required to keep it stretched to a length of 40 cm, how much work W is required to stretch it from 22 cm to 31 cm? (Round your answer to two decimal places.)

W = 50 ☒ 5.50 J

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Suppose that 6 J of work is needed to stretch a spring from its natural length of 24 cm to a length of 40 cm.

(a) How much work is needed to stretch the spring from 29 cm to 37 cm? (Round your answer to two decimal places.)

3.28 ☒ 3.28 J

(b) How far beyond its natural length will a force of 10 N keep the spring stretched? (Round your answer one decimal place.)

8.82 ☒ 8.7 cm

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If 24 J of work are needed to stretch a spring from 13 cm to 17 cm and 40 J are needed to stretch it from 17 cm to 21 cm, what is the natural length of the spring?

No Response ☒ 0 cm

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