# Self Check 3.1

**Due** No due date **Points** 10 **Questions** 10

Time limit None

Allowed attempts Unlimited

## Instructions



This exercise will help you check your knowledge. Please take it as many times as you need to master the concepts. Select the best answer for each question.

Take the quiz again

### Attempt history

	Attempt	Time	Score
КЕРТ	Attempt 3	5 minutes	8 out of 10 *
LATEST	Attempt 3	5 minutes	8 out of 10 *
	Attempt 2	6 minutes	8 out of 10 *
	Attempt 1	84 minutes	6 out of 10 *

\* Some questions not yet graded

#### () Correct answers are hidden.

Score for this attempt: **8** out of 10 \* Submitted 22 Mar 2019 at 11:47 This attempt took 5 minutes.

Question 1

1 / 1 pts

A spring exerts a 50 N force when it is stretched 2 m. What is the spring	
constant?	

50	N/m
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🔵 52 N/m

🔵 100 N/m

25 N/m

Feedback: Either draw a F vs. x graph and find the slope, or plug in the values of F and x into Hooke's law and solve for k.

Question 2	Not yet graded / 1 pts
How do you find the work done by a nonconstan	t force?
Your answer:	
Take the area under the f vs.graph.	
Answer: Take the area under the F vs. x grap	bh.

#### **Question 3**

1 / 1 pts

Calculate the work done on an object when a 20 N force is applied to move the object 100 m.

2000 N∙m			
80 N∙m			
3000 N∙m			
300 N∙m			

Question 4	1 / 1 pts
How much work is done to push a car for 2 m horizintally if an a applied at a 25° angle?	8 N force is
─ 16 N·m	
14.5 N·m	
◯ 26 N·m	
○ 40 N·m	

Question 5	1 / 1 pts
How much work is done to stretch the spring in question 4 from m?	1 0 m to 2
─ 30 N·m	
○ 22 N·m	
● 50 N·m	

	25	Ν	•	m
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Feedback: Draw a F vs. x graph and find the area.





🔍 13 N

12 N

Question 8	1 / 1 pts
If 80 N•m of work is done on an object that is moved horizonta how much force was applied?	lly 25 m,
105 N	
○ 55 N	
● 3.2 N	
○ 5.3 N	



○ 3.71 N			
🔘 2450 N			
56.7 N			

Question 10	Not yet graded / 1 pts
What is the formula for finding the work done to same direction as the displacement?	by a constant force in the
Your answer:	
w=f.d	
Answer: W = F × d	

Quiz score: 8 out of 10