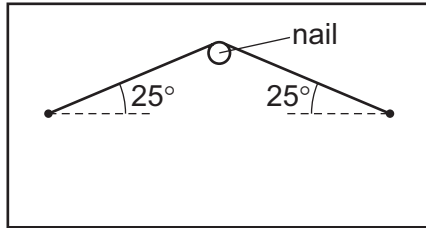


- 18** A picture on a wall is supported by a wire looped over a nail.



The mass of the picture is 4.2 kg.

What is the tension in the supporting wire?

- A** 5.0 N                      **B** 23 N                      **C** 49 N                      **D** 97 N

- 19** A piston in a gas supply pump has an area of  $500 \text{ cm}^2$  and it moves a distance of 20 cm during