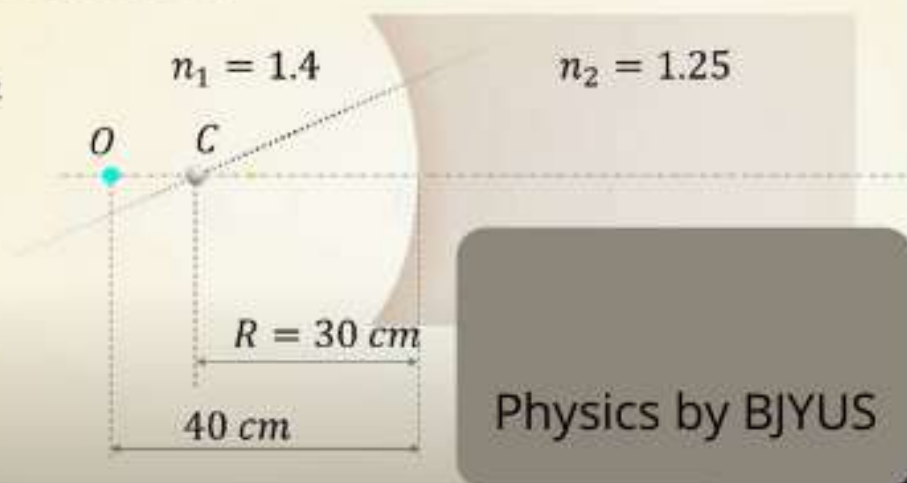For the spherical interface shown in the figure, the two different medi
with refractive indices $n_1 = 1.4$ and $n_2 = 1.25$ are present as showr
The image will be formed at

ⓐ $-\dfrac{125}{3}$ cm

ⓑ $-\dfrac{50}{6}$ cm

ⓒ $-\dfrac{25}{2}$ cm

ⓓ -20 cm

$n_1 = 1.4$

$n_2 = 1.25$

O   C

$R = 30$ cm

40 cm

Physics by BJYUS

Four moles of a diatomic gas is heated from $0°C$ to $50°C$. Find the heat supplied to the gas if work done by it is zero

ⓐ $780\ R$

ⓑ $500\ R$

ⓒ $100\ R$

ⓓ $650\ R$

Physics by BJYUS

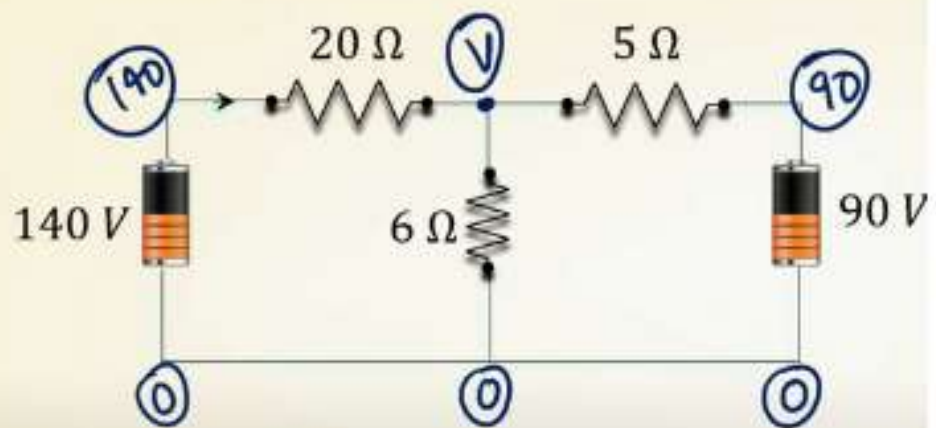In the given circuit, find the current through 6 Ω resistance.

@ 18 A

ⓑ 7 A

ⓒ 25 A

ⓓ 30A

140 V   20 Ω (V)   5 Ω   90 V   6 Ω

A spring of force constant $k = 100\ N/m$ is compressed to $x = 0.05\ m$ by a block of mass $1\ kg$ and released. Find the distance d where it falls

(a) $\dfrac{5}{\sqrt{10}}\ m$

(b) $5\sqrt{10}\ m$

(c) $10\sqrt{10}\ m$

(d) $\dfrac{1}{\sqrt{10}}\ m$

$2\ m$
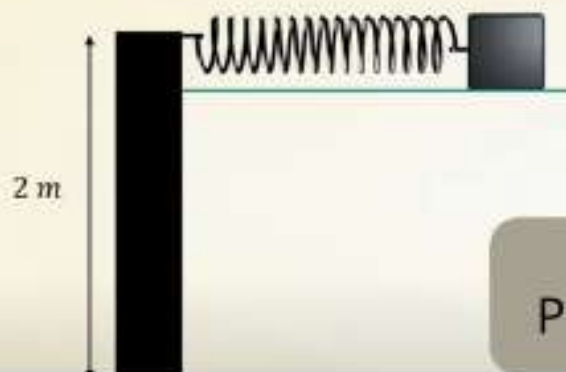
Physics by BYJU's

Consider the P-V diagram given below for a cyclic process. Find the net heat supplied to the system during the process.

(a) 0.625π J

(b) 0.25π J

(c) 0.1π J

Physics by BYJU's