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9c) $a = ?$

$x = -0.10 \text{ m}$

$k = 2.00 \times 10^2 \frac{\text{N}}{\text{m}}$

$m = 1.2 \text{ kg}$

$F_a = kx$

$F_a = (2.00 \times 10^2 \frac{\text{N}}{\text{m}})(-0.10 \text{ m})$

$F_a = -2.0 \times 10^1 \frac{\text{N}}{\text{m}}$

$F_{\text{net}} = ma$

$F_a = ma$

$a = \frac{F_a}{m}$

$a = \frac{-2.0 \times 10^1 \frac{\text{N}}{\text{m}}}{1.2 \text{ kg}}$

$a = -17 \text{ m/s}^2$