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Dane:

$f = 4Hz$

a) $\mathrm{A} = 2\mathrm{cm} = 0{,}02\mathrm{m}$

$\lambda = 8cm = 0{,}08m$

$\lambda = \frac{v_x}{f}$

$v_x = \lambda f$

$v_x = 0{,}08m \times 4Hz = 0{,}32\frac{m}{s}$

b) $v_{max} = A\omega \qquad \omega = 2\pi f$

$v_{max} = 2\pi f A$

$v_{max} = 2\ \times 3{,}14 \times 4Hz \times 0{,}02m = 0{,}5024\frac{m}{s} \approx 50\frac{cm}{s}$