Wave:

$$D(x,t) = (3.5\text{ cm})\sin(2.7x - 124t)$$

x in m & t in s.

General form: $D = A\sin(kx - \omega t)$

So: $k = 2.7$ rad/m & $\omega = 124$ rad/s

∴

a.) $\lambda = \frac{2\pi}{k} = \underline{2.327\text{ m}}$

$f = \frac{\omega}{2\pi} = \underline{19.74\text{ Hz}}$

b.) $v = \lambda f = \frac{\omega}{k} = \underline{45.92\text{ m/s}}$

c.) for $x = 5.2$m & $t = 3.6$s

$$D(x,t) = (3.5\text{cm})\sin(2.7(5.2) - 124(3.6))$$

$$= \underline{3.256\text{ cm}}$$

If you got -3.335 cm, you forgot to change your calculator to radians!