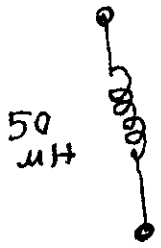
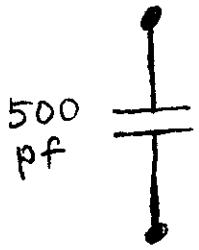
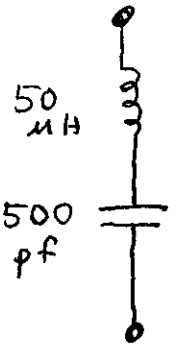
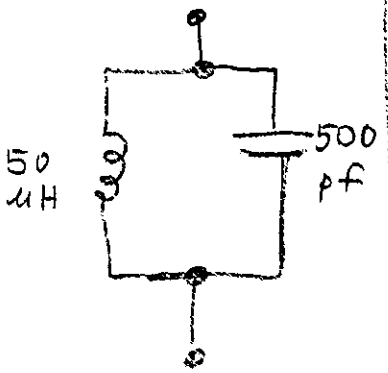
Name Key

Fill in the chart; for $f = 1$ MHz (10^6 Hz)

$\omega = 6.28 \times 10^6$

	Resistance	Reactance	Impedance
	0	ωL $= 314$ 100π	$j\omega L$ $j 314$ $j 100\pi$
	0	$\frac{-1}{\omega C}$ -318 $\frac{-1}{2\pi fC} =$	$\frac{1}{j\omega C}$ $-j 318$
	0	$X_L + X_C$ -4	$-j 4$
	0	$\frac{1}{\frac{1}{X_L} + \frac{1}{X_C}}$ 25×10^3	$j 25 \times 10^3$

all wrong −8 almost attentive quiz

2nd row:
−8 clueless

−0 got concept pf = 10^{-9}?
−2 Z not X, pf = 10^{-9}?
−4 mixed wrong, got something correct
−6 all wrong or blank

or $\omega = f$??