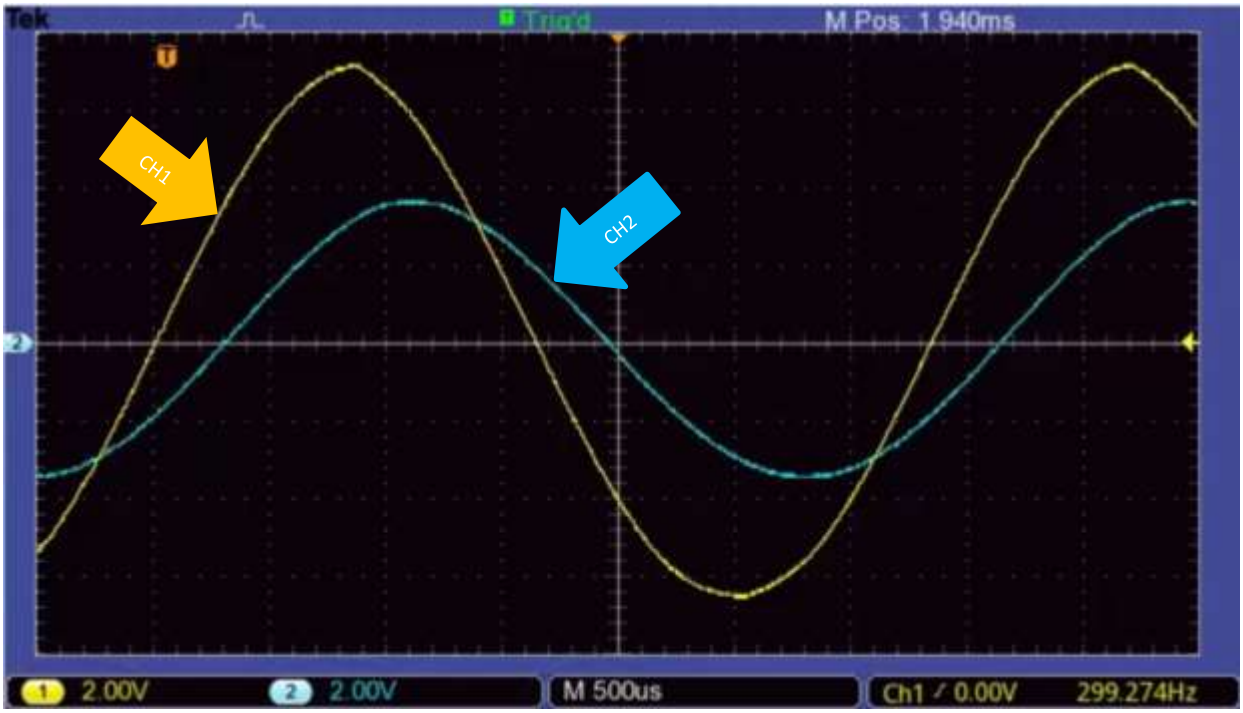
Measuring Phase Shift with an Oscilloscope (26:53)

ERROR at 17:23 separation of 1.4 divisions yields phase shift of 28.3°

Given the following information determine the electrical properties of these waveforms including the phase shift of CH2 with respect to CH1:

CH1 YELLOW vertical sensitivity: 2V/div
CH2 BLUE vertical sensitivity: 2V/div
horizontal sensitivity: 500µs/div.



Discuss the consequences of increasing the vertical sensitivity of channel 1 and channel 2 to 500mV/div and horizontal sensitivity 100us/div.

Given the following information determine the phase shift of CH1 with respect to CH2:

CH1 YELLOW vertical sensitivity: 2V/div

CH2 BLUE vertical sensitivity: 2V/div

horizontal sensitivity: 2.5ms/div.

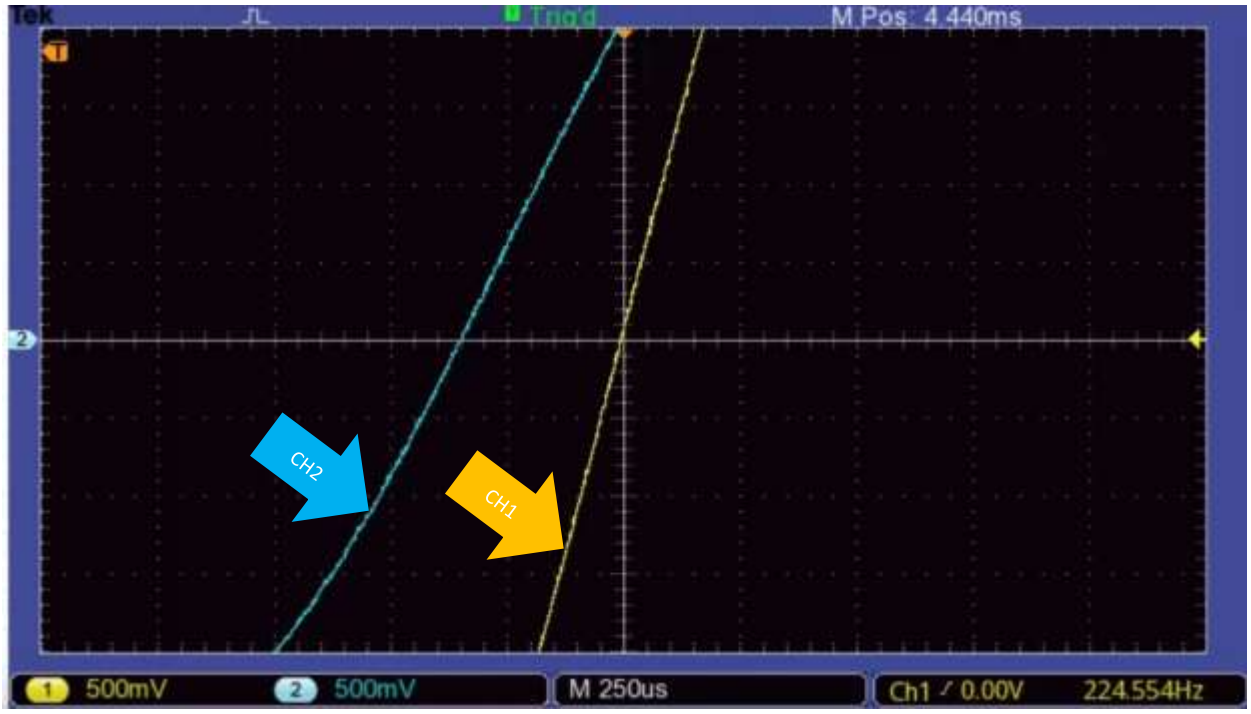
Given the following information determine the phase shift of CH1 with respect to CH2.

CH1 YELLOW vertical sensitivity: 100mV/div
CH2 BLUE vertical sensitivity: 100mV/div
horizontal sensitivity: 250µs/div

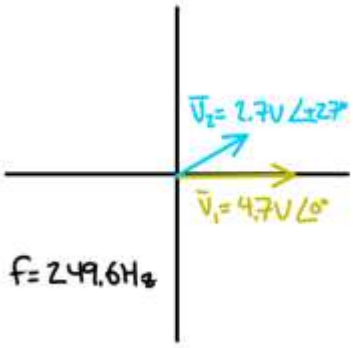
Given the following information determine the phase shift of CH1 with respect to CH2.

CH1 YELLOW vertical sensitivity: 500mV/div
CH2 BLUE vertical sensitivity: 500mV/div
horizontal sensitivity: 250µms/div

ERROR at 17:23 separation of 1.4 divisions yields phase shift of 28.3°



Given this phasor diagram determine how many divisions will separate $\mathbf{V_1}$ and $\mathbf{V_2}$ when displayed on an oscilloscope with a horizontal sensitivity of 500us/div.



Identify how to enable and use time cursors to measure phase shift on the Tektronix 1032B.

Identify how to enable automated phase shift measurements on the Tektronix 1032B.