Unit 4.4 Interpolation on Linear Equations

- 1. Find the corresponding y value given the ordered pairs and x value
 - a. (4,100) and (20,420) where x = 12

y = _____

b. (1,30) and (5,300) where x = 3.5

y = _____

c. (0,32) and (10,212) where x = 8

y = _____

d. (0,0) and (4095,100) where x = 3010

y = _____

2.	If you have a temperature transmitter with an operating range of -40 to 150 °C and it outputs a value of 4 – 20 mA. Find the temperature value if the transmitter is outputting 10 mA
	Ordered pairs:
	Equation:
	Temp value at 10 mA =
3.	If you have a pressure transmitter with an operating range of 30 to 3000 psi and it outputs a 1 to 10 V signal, what would be the corresponding pressure value if the transmitter is outputting 4.97 V $$
	Ordered pairs:
	Equation:
	Pressure value at 4.97 V =

4.	If you have a pressure transducer that is designed for a 4-20 mA output, and has an operating range of 3-15 psi, what would the corresponding pressure be if the current is measured at 12 mA?
	Ordered pairs:
	Equation:
	Pressure value at 12 mA =