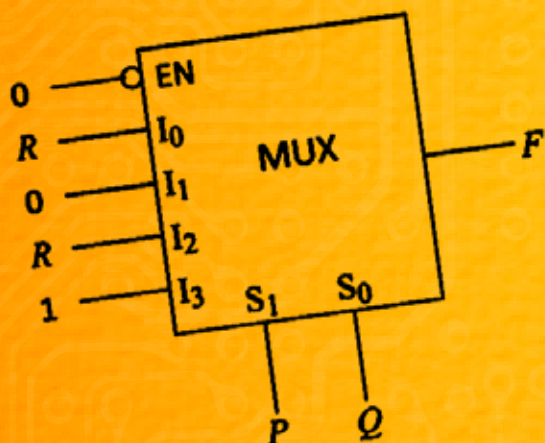
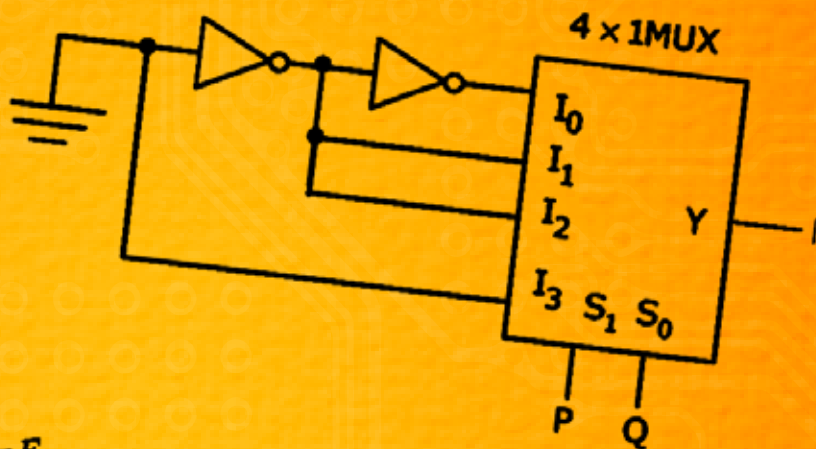
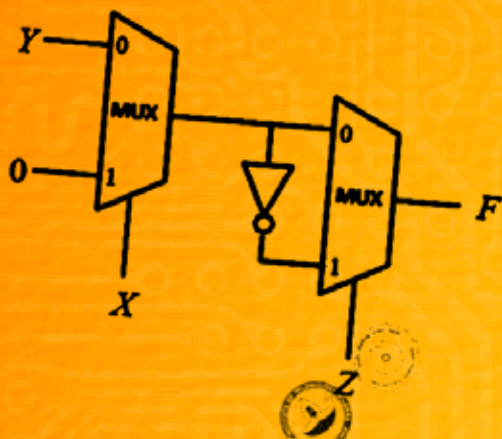


Arduino function
 reset
 digital pin 0 (RX)
 digital pin 1 (TX)
 digital pin 2
 digital pin 3 (PWM)
 digital pin 4
 VCC
 GND
 crystal
 crystal
 digital pin 5 (PWM)
 digital pin 6 (PWM)
 digital pin 7
 digital pin 8

Atmega168 Pin Mapping

(PCINT14/RESET) PC6	1	25	PC5 (ADC5/SCL/PCINT13)	analog input 5
(PCINT16/RXD) PD0	2	27	PC4 (ADC4/SDA/PCINT12)	analog input 4
(PCINT17/TXD) PD1	3	28	PC3 (ADC3/PCINT11)	analog input 3
(PCINT18/INT0) PD2	4	29	PC2 (ADC2/PCINT10)	analog input 2
(PCINT19/OC2B/INT1) PD3	5	30	PC1 (ADC1/PCINT9)	analog input 1
(PCINT20/XCK/T0) PD4	6	31	PC0 (ADC0/PCINT8)	analog input 0
VCC	7	32	GND	GND
GND	8	33	AREF	analog reference
crystal	9	34	AVCC	VCC
crystal	10	35	PB5 (SCK/PCINT5)	digital pin 13
(PCINT21/OC0B/T1) PD5	11	36	PB4 (MISO/PCINT4)	digital pin 12
(PCINT22/OC0A/AIN0) PD6	12	37	PB3 (MOSI/OC2A/PCINT3)	digital pin 11 (PWM)
(PCINT23/AIN1) PD7	13	38	PB2 (SS/OC1B/PCINT2)	digital pin 10 (PWM)
(PCINT0/CLKO/ACP1) PB0	14	39	PB1 (OC1A/PCINT1)	digital pin 9 (PWM)

Digital Pins 11, 12 & 13 are used by the ICSP header for MOSI, MISO, SCK connections (Atmega168 pins 17, 18 & 19). Avoid low-impedance loads on these pins when using the ICSP header.



$$f(x, y, z, w) = (x' + y)z + w'$$

