a)An odd digit followed by an even digit
/[13579][02468]/

b)A letter followed by a non-letter followed by a number
/[a-zA-Z][^a-zA-Z][0-9]+/
Assuming a non-letter includes numbers and whitespace (a322 & e 89
would count)

c)A word that starts with an upper case letter and ends with some
punctuation mark
/\b[A-Z][a-z]+[^a-zA-Z0-9\s]/
Assuming a punction mark is everything other than a letter, number, or
whitespace (@#$ etc count as punctuation)

d)The string "ping" in any combination of upper and lower case letters
/[pP][iI][nN][gG]/

e)A date in the form of one or two digits, a dot, one or two digits, a
dot, two digits
/\b[0-9]{1,2}\.[0-9]{1,2}\.[0-9]{2}\b/