DC Ohm's Law and Power Examples (12:19)

Given known values for each scenario solve for the two unknown values using the most efficient and direct means possible. Use another algebraic permutation of either DC ohm's law or the power equations to check your work. Express all answers in proper engineering format to the tenths place.

① $I = 2A$
$R = 40\Omega$
$P = ?$
$V = ?$

② $V = 72V$
$R =$ BROWN GREEN BROWN GOLD
$I = ?$
$P = ?$

③ $P = 1.2kW$
$R = 12\Omega$
$V = ?$
$I = ?$

④ $P = 500W$
$I = 2.4A$
$R = ?$
$V = ?$

⑤ $R =$ ORANGE ORANGE RED GOLD
$I = 8mA$
$V = ?$
$P = ?$

⑥ $I = 20mA$
$P = 2.4W$
$V = ?$
$R = ?$

⑦ $V = 12V$
$I = 50mA$
$P = ?$
$R = ?$

⑧ $V = 60V$
$P = 240W$
$R = ?$
$I = ?$

⑨ $R = 1.2k\Omega$
$P = 3W$
$I = ?$
$V = ?$

⑩ $P = 50W$
$V = 48V$
$I = ?$
$R = ?$

⑪ $I = 317mA$
$V = 256V$
$R = ?$
$P = ?$

⑫ $R = 560\Omega$
$V = 24V$
$I = ?$
$P = ?$