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parallel

circuit

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~~Circuit~~

~~worksheet~~

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~~solving series~~

~~parallel~~

~~circuits~~

~~Parallel RLC~~

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problem Easy

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Basics~~

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~~Equivalent~~

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circuits Two

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TOTAL

RESISTANCE IN

A SERIES

CIRCUIT

Parallel

Series

Resistor DC

Circuit

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Total*

*Resistance in
Series and
Parallel
Circuits*

DC Series-
parallel
Circuit Total
Resistance
*Parallel
Circuit Math*

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Tutorial

Answer Key

~~Series vs~~

~~Parallel~~

~~Circuits~~

~~Circuit~~

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~~current and~~

~~voltage for~~

~~every resistor~~

Capacitors in

Series and

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Answer Key
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Explained!**

~~Series-~~

~~Parallel~~

~~Calculations~~

~~Part 1~~

Equivalent

Resistance of

Complex

Circuits -

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Series and

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Combinations**

**Parallel and
Series**

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Circuit**

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DC parallel

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circuit

Answer Key

calculations

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Combination

Resistors No.

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while teaching

the "laws" of

parallel

circuits is

that some

students

mistakenly

think the rule

of "all

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voltages in a
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circuit being
the same”

means that the
amount of
voltage in a
parallel
circuit is
fixed over
time and
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Answer Key

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Circuits

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Parallel

Circuit

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1. In this

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interactive
Answer Key
object,

students work
parallel
circuit
analysis
problems. They
solve for
total
resistance and
current, the
current

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through each resistor, the voltage across each resistor, and the power dissipated.

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Parallel

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Parallel Circuits
Circuit
Answer Key
Analysis

Practice

Problems Part

1 - Wisc ...

Series-

Parallel

Circuit

Analysis:

Practice

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Answer Key

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interactive
object,
learners
analyze a seri
es-parallel DC
circuit
problem in a
series of
steps.

Immediate

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feedback is
Answer Key
provided.

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Analysis:
Practice
Problems ...
Parallel RL
Circuit
Practice

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object,
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inductive
reactance,
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current, and

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circuits.

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the problem
Answer Key
solving

techniques for
electrical
circuits that
include both
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parallel
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s-Parallel
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rallel Circuit
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Series-
Answer Key

Parallel

Circuit

Knowledge

Check 1. Refer

to Figure

5(A). If the

following

resistors were

replaced with

the values

indicated: R 1

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Answer Key
= 900 W, $R_3 = 1 \text{ k}\Omega$, what is
the total
power in the
circuit? What
is E_{R2} ? 2.

6 Series
Parallel
Circuits -
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problems

Answer Key

involving

finding

currents and

voltages in

circuits with

pure (series

or parallel)

combinations

of resistors.

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message, it
Answer Key
means we're

having trouble
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our website.

Finding
currents and
voltages (pure
circuits)

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(practice ...

Answer Key

Identify

series and

parallel

resistors in a

circuit

setting If

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this message,

it means we're

having trouble

loading

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Problems With
Parallel Circuits

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resources on
our website.**

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Answer Key

Series and
parallel
resistors

(practice) |
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In a parallel
circuit, the
element with
the least
resistance
consumes the

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Parallel Circuits

most power.

Answer Key
practice

problem 2 A

kitchen in

North America

has three

appliances

connected to a

120 V circuit

with a 15 A

circuit

breaker: an

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850 W coffee
maker, a 1200
W microwave
oven, and a
900 W toaster.
Draw a
schematic
diagram of
this circuit.

Resistors in
Circuits -

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common

problems I

encounter as

an electronics

instructor

with reference

to series-

parallel are

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invariably
related to

students' lack
of ability to
consistently
distinguish
series sub-
networks and
parallel sub-
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ries-parallel
combination

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Parallel DC
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a series-
parallel DC
circuit
analysis

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problem.

Answer Key

Immediate step-
by-step
feedback is
given.

Series-
Parallel
Circuit
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Practice
Problems . . .

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Parallel Circuits

Total
Answer Key
resistance in
a parallel
circuit is
less than any
of the
individual
resistances: R
Total = $1 /$
 $(1/R_1 + 1/R_2$
 $+ . . . 1/R_n)$
Total current

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Problems With
Parallel Circuits

in a parallel
Answer Key
circuit is

equal to the
sum of the
individual
branch

currents: I

Total = $I_1 +$

$I_2 + \dots + I_n$

RELATED

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Parallel
Circuits ...

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Parallel Circuits
Answer Key

Problem #5

**What is shown
below is a
series /
parallel
circuit.**

**Calculate the
total series /
parallel
resistance
shown below,
if the level**

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Parallel Circuits

is installed
Answer Key
between points
A and B. (The
magnitude R_1
 $= 7 \text{ ?}$, $R_2 =$
 2.5 ? , $R_3 =$
 7.5 ? , $R_4 = 5$
 ? , $R_5 = 3 \text{ ?}$
and $R_6 = 2 \text{ ?}$)

Answer; (a) if
the level is
installed

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Problems With
Parallel Circuits
between points
A and B

Resistors in
Parallel and
in Series
Circuits
Problems and

...

Series and
parallel
resistors on

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**Series and
parallel
resistors**

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**1. Determine
the equivalent
(total)
resistance for
each of the
following**

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Parallel Circuits
circuits
Answer Key
below. 2.

Determine the
total voltage
(electric
potential) for
each of the
following
circuits
below. 3. Fill
out the table
for the

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Parallel Circuits
circuit
Answer Key

diagramed at
the right.

Circuit

Position

Voltage (V)

Current (A)

Resistance (?)

1 10.0 2 20.0

3 30.0 Total

6.00 4.

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Problems With
Parallel Circuits
Answer Key

CIRCUITS WORKSHEET

EE 201 series/
parallel
combinations -
3 Three
equations,
three
unknowns. i_{R1}
 $= i_{R2} + i_{R3}$
 $V_S - i_{R1}R_1 -$
 $i_{R2}R_2 = 0$ i

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Parallel Circuits

$$R_2 R_2 - i R_1 (R_3 + R_4 + R_5)$$

= 0. Soon

enough, we
will be adept
at handling
problems like
this. For now,
we will put
our trust in
Wolfram-Alpha
(or something

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Problems With
Parallel Circuits
Answer Key

similar), and
let it grind
out the
answers. i_{R1}
 $= 5.02 \text{ mA} \dots$

Series and
parallel
combinations
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Problems With
Parallel Circuits
(Circuits I)
Answer Key
Practice

Problems 6

Problem 6. The
initial

capacitor

voltage in the
circuit shown

below is $v(0)$

$= 10 \text{ V}$.

$i \times 10$
Ω $6 \text{ v} + _$

$\text{v } 10 \text{ Ω } + _$

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Problems With
Parallel Circuits

0.4 F a) Find
the capacitor
voltage $v(t)$
for $t > 0$ b)

Find the
current i_x at
 $t = 0.5$ s

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Parallel Circuits

Answer Key

Circuits with
capacitors.

Capacitors and
capacitance.

Capacitance.

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questions.

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currently

selected item.

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Energy of a
capacitor.

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parallel
circuit
practice
problem 1 *How*
to Solve a
Parallel

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Circuit (Easy)

How To

*Calculate The
Current In a
Parallel*

Circuit Using

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Circuit

Problem

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~~Parallel
Circuit~~

~~worksheet~~

~~example~~

~~solving series~~

~~parallel~~

~~circuits~~

~~Parallel RLC~~

~~Circuit~~

~~Example~~

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Series and

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Parallel

Answer Key

~~Circuits~~ How to

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~~Combination~~

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~~Method for~~

~~Finding Total~~

~~Resistance in~~

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~~a Parallel~~
~~Circuits~~ Answer Key

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practice
problem part2
~~Bridge Circuit~~

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Parallel Circuits
~~Equivalent
Resistance~~

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parallel
combination
circuits Two
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Parallel PCR.
CALCULATE
TOTAL

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Answer Key

**RESISTANCE IN
A SERIES**

CIRCUIT

Parallel

Series

Resistor DC

Circuit

Analysis

Calculating

Total

Resistance in

Series and

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*Parallel
Circuits*

DC Series-
parallel
Circuit Total
Resistance
*Parallel
Circuit Math
Tutorial*
~~Series vs
Parallel
Circuits~~

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~~Circuit
Answer Key
analysis —~~

~~Solving
current and
voltage for
every resistor~~

Capacitors in
Series and
Parallel
Explained!

~~Series—
Parallel~~

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~~Part 1~~

Equivalent
Resistance of
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Parallel and
Series

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Circuit

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calculations

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Electric

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16)*

*Combination
Resistors No.
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One problem
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encountered
while teaching*

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the "laws" of
parallel
circuits is
that some
students
mistakenly
think the rule
of "all
voltages in a
parallel
circuit being
the same"

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means that the
amount of
voltage in a
parallel
circuit is
fixed over
time and
cannot change.

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Circuits
Practice

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Answer Key . . .

Parallel
Circuit
Analysis
Practice
Problems Part
1. In this
interactive
object,
students work
parallel

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**circuit
analysis**

**problems. They
solve for
total
resistance and
current, the
current
through each
resistor, the
voltage across
each resistor,**

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Parallel Circuits
and the power
dissipated.

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Analysis
Practice
Problems Part

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1 - Wisc ...

Answer Key

Series-

Parallel

Circuit

Analysis:

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In this

interactive

object,

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learners

Answer Key

analyze a series-parallel DC circuit

problem in a series of steps.

Immediate feedback is provided.

Series-

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Answer Key
**Parallel
Circuit**

Analysis:

Practice

Problems ...

Parallel RL

Circuit

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**interactive
Answer Key**

**object,
students
calculate
inductive
reactance,
impedance,
current, and
power in
parallel RL
circuits.**

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Answer Key**

Parallel

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solving

techniques for

electrical

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Answer Key
circuits that

include both

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rallel Circuit

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Rheostat in a
Series-

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Circuit

Knowledge

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Check 1. Refer
to Figure

5(A). If the
following
resistors were
replaced with
the values
indicated: $R_1 = 900 \Omega$, $R_3 = 1 \text{ k}\Omega$, what is
the total
power in the

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circuit? What
Answer Key
is $E R^2$? 2.

6 Series
Parallel
Circuits -
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involving
finding
currents and

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voltages in
circuits with
pure (series
or parallel)
combinations
of resistors.
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our website.

Finding
currents and
voltages (pure
circuits)
(practice ...
Identify
series and
parallel

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resistors in a
circuit

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Series and
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resistors

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Answer Key
Khan Academy

In a parallel
circuit, the
element with
the least
resistance
consumes the
most power.

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problem 2 A
kitchen in

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North America
Answer Key
has three

appliances
connected to a
120 V circuit
with a 15 A
circuit
breaker: an
850 W coffee
maker, a 1200
W microwave
oven, and a

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Parallel Circuits

900 W toaster.

Answer Key

Draw a
schematic
diagram of
this circuit.

Resistors in
Circuits -
Practice - The
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Hypertextbook
The most

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Parallel Circuits

Common

Answer Key

problems I
encounter as
an electronics
instructor
with reference
to series-
parallel are
invariably
related to
students' lack
of ability to

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Parallel Circuits

consistently
Answer Key
distinguish
series sub-
networks and
parallel sub-
networks in se-
ries-parallel
combination
circuits.

Series-
Parallel DC

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Circuits

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a series-
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circuit
analysis
problem.**

**Immediate step-
by-step
feedback is**

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given.
Answer Key

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Parallel
Circuit
Analysis
Practice
Problems ...
Total
resistance in
a parallel
circuit is

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Parallel Circuits
Answer Key

less than any
of the

individual

resistances: R

Total = $1 /$

$(1/R_1 + 1/R_2$

$+ \dots + 1/R_n)$

Total current

in a parallel

circuit is

equal to the

sum of the

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Problems With
Parallel Circuits
individual
Answer Key
branch

currents: I

Total = $I_1 +$

$I_2 + \dots + I$

n . RELATED

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Circuits

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Answers

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Answer Key

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Parallel
Circuits |
Series And
Parallel
Circuits ...
Problem #5
What is shown
below is a
series /

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parallel
Answer Key
circuit.

Calculate the
total series /
parallel
resistance
shown below,
if the level
is installed
between points
A and B. (The
magnitude R 1

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Parallel Circuits

Answer Key
= 7 ?, R 2 =
2.5 ?, R 3 =
7.5 ?, R 4 = 5
?, R 5 = 3 ?
and R 6 = 2 ?)

Answer; (a) if
the level is
installed
between points
A and B

Resistors in

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in Series

Circuits

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parallel

resistors

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1. Determine
the equivalent
(total)
resistance for
each of the
following
circuits
below. 2.

Determine the
total voltage

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(electric
potential) for
each of the
following
circuits
below. 3. Fill
out the table
for the
circuit
diagramed at
the right.
Circuit

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Problems With
Parallel Circuits

Position

Answer Key

Voltage (V)

Current (A)

Resistance (?)

1 10.0 2 20.0

3 30.0 Total

6.00 4.

CIRCUITS

WORKSHEET

EE 201 series/

parallel

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Problems With
Parallel Circuits

combinations -

Answer Key

3 Three

equations,

three

unknowns. i_{R1}

$= i_{R2} + i_{R3}$

$V_S - i_{R1}R_1 -$

$i_{R2}R_2 = 0$ i_{R1}

$R_2 - i_{R1}(R_3 + R_4 + R_5)$

$= 0$. Soon

enough, we

enough, we

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will be adept
at handling
problems like
this. For now,
we will put
our trust in
Wolfram-Alpha
(or something
similar), and
let it grind
out the
answers. i R1

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= 5.02 mA ...
Answer Key

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initial
Answer Key
capacitor

voltage in the
circuit shown

below is $v(0)$

$= 10 \text{ V}$.

$10 \text{ } \Omega$; 6 V + _

$10 \text{ } \Omega$; + _

0.4 F a) Find

the capacitor

voltage $v(t)$

for $t > 0$ b)

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Find the
Answer Key
current i_x at
 $t = 0.5$ s

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Circuits with
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