Section 1.1 Focus Exercises

1. Find the absolute value of each number, as indicated.

d)
$$\left| -\frac{3}{5} \right| =$$

f)
$$|\sqrt{10}| =$$

2. Write each decimal number as a fraction, thereby making it a rational number. Simplify the fraction completely.

a)
$$.03 =$$

b)
$$7.5 =$$

c)
$$-0.105 =$$

3. Write each repeating decimal as a fraction; reduce the fraction if possible.

- f) .540540540...
- **4.** Decide whether each number is rational or not. *State why it is or is not.*

a)
$$-\frac{4}{5}$$

b)
$$\frac{0}{4}$$

- c) 2.031031031031....
- d) 5.1929394959....
- e) 0.590143776

5. Decide into which category or set of the real numbers each fits. Put a check mark in the box(es) that describe that number. Check all that apply.

		Natural	Whole	Integer	Rational	Irrational	Undefined	Real
a)	- 5							
b)	8.2395071							
c)	$-\frac{6}{7}$							
d)	π							
e)	$\frac{2}{0}$							
f)	3. 14							
g)	$\frac{9}{3}$							
h)	√6							
i)	$\frac{0}{3}$							
j)	- √ 25							

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