Rational vs. Irrational Numbers

Part I: Solve for the decimal equivalence to the following numbers.

Fraction	Decimal Expansion
1	
$\frac{1}{2}$	
$\frac{1}{3}$	
$\frac{1}{4}$	
$\frac{1}{5}$	
$\frac{1}{6}$	
$\frac{1}{7}$	
$\frac{1}{8}$	
$\frac{1}{9}$	
$\frac{1}{10}$	
$\frac{1}{11}$	
$\frac{1}{12}$	
$\frac{1}{13}$	
$\frac{1}{14}$	
$\frac{1}{15}$	

Part II: Comparing Rational and Irrational Numbers

Rational Numbers	
$-\frac{2}{3}$	$-0.\overline{6}$
$\frac{5}{9}$	
$-\frac{1}{4}$	
-7	
$\frac{15}{11}$	
$\frac{2}{7}$	

Irrational Numbers	
$\sqrt{2}$	1.414213562…
π	
$-\sqrt{5}$	
$\sqrt{\frac{1}{2}}$	
e^1	
$\frac{-15}{\sqrt{7}}$	

Characteristics of Rational Numbers

Characteristics of Irrational Numbers

Part III: Identify at least 5 rational numbers that are between 3 and 4. Now identify at least 3 irrational numbers that are between 3 and 4.