Express each fraction as a decimal. State whether the decimal is a terminating or a recurring decimal.

(e) 
$$-\frac{7}{12}$$

Express each decimal as a fraction or a mixed number in its simplest form.

(d) -8.25

## Arrange the following in ascending order.

$$\frac{23}{70}$$
, 0.302, 0.302, 0.302,  $\frac{1}{3}$ 

(a) Arrange the following in ascending order.

$$\frac{1}{14}$$
,  $\frac{1}{5}$ ,  $\frac{1}{11}$ ,  $\frac{1}{8}$ 

**(b)** Arrange the following in descending order.

$$\frac{13}{14}$$
,  $\frac{4}{5}$ ,  $\frac{10}{11}$ ,  $\frac{7}{8}$ 

- Determine whether each statement below is TRUE or FALSE. Give a counterexample if the statement is false.
- (a) The sum of two irrational numbers is always irrational.
- **(b)** The sum of a rational number and an irrational number is irrational.
- (c) The product of two irrational numbers is always irrational.
- (d) The product of a non-zero rational number and an irrational number is irrational.