

Simplify the first 15 perfect square roots.

$$\sqrt{1} = 1$$

$$\sqrt{25} = \underline{\hspace{2cm}}$$

$$\sqrt{9} = \underline{\hspace{2cm}}$$

$$\sqrt{4} = 2$$

$$\sqrt{100} = \underline{\hspace{2cm}}$$

$$\sqrt{64} = \underline{\hspace{2cm}}$$

$$\sqrt{121} = \underline{\hspace{2cm}}$$

$$\sqrt{36} = \underline{\hspace{2cm}}$$

$$\sqrt{196} = \underline{\hspace{2cm}}$$

$$\sqrt{81} = \underline{\hspace{2cm}}$$

$$\sqrt{16} = \underline{\hspace{2cm}}$$

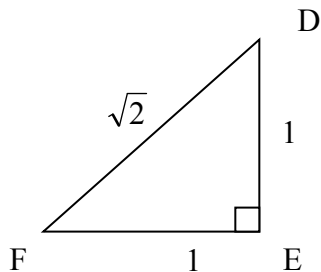
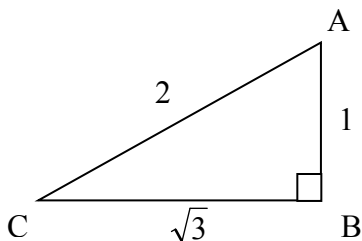
$$\sqrt{49} = \underline{\hspace{2cm}}$$

$$\sqrt{144} = \underline{\hspace{2cm}}$$

$$\sqrt{225} = \underline{\hspace{2cm}}$$

$$\sqrt{169} = \underline{\hspace{2cm}}$$

Find each ratio. Rationalize the denominator when possible.



a.)  $\frac{AB}{AC} =$

d.)  $\frac{AB}{CB} =$

g.)  $\frac{DF}{FE} =$

b.)  $\frac{DE}{EF} =$

e.)  $\frac{BC}{AC} =$

h.)  $\frac{AC}{AB} =$

c.)  $\frac{EF}{DF} =$

f.)  $\frac{DE}{DF} =$

i.)  $\frac{AC}{CB} =$

Rationalize each denominator and write in simplest form.

1.  $\frac{1}{\sqrt{2}}$

2.  $\frac{2}{\sqrt{3}}$

3.  $\frac{1}{\sqrt{7}}$

4.  $\frac{6}{\sqrt{2}}$

5.  $\frac{15}{\sqrt{5}}$

6.  $\frac{42}{\sqrt{7}}$

7.  $\frac{1}{\sqrt{81}}$

8.  $\frac{2}{\sqrt{11}}$

9.  $\frac{4}{\sqrt{2}}$

10.  $\frac{1}{\sqrt{3}}$

11.  $\frac{1}{\sqrt{225}}$

12.  $\frac{1}{3\sqrt{16}}$

13.  $\frac{8}{3\sqrt{2}}$

14.  $\frac{2}{\sqrt{3}}$

15.  $\frac{1}{\sqrt{2}}$

16.  $\frac{1}{\sqrt{12}}$

17.  $\frac{11}{\sqrt{121}}$

18.  $\frac{12}{\sqrt{36}}$