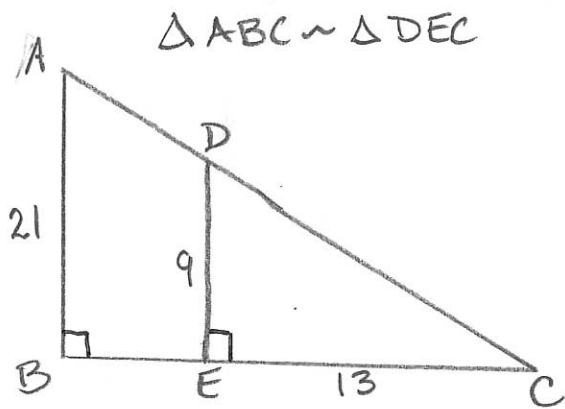


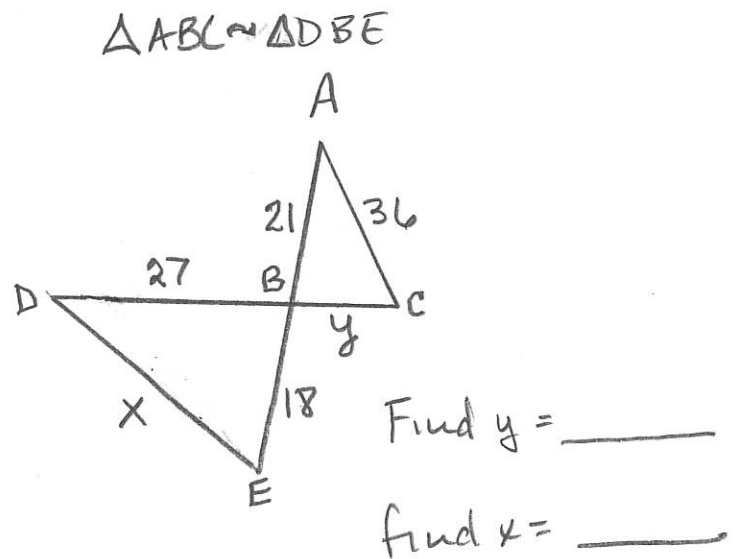
Chapter 10. TEST Review

Section 7-5 Similar Triangles. Find the missing sides labeled "x", "y" of the following similar triangles.



Find $BE =$ _____

Find $DC =$ _____



Section 7-6 Special Triangles and Rationalizing Square Roots in the Denominator.

Simplify:

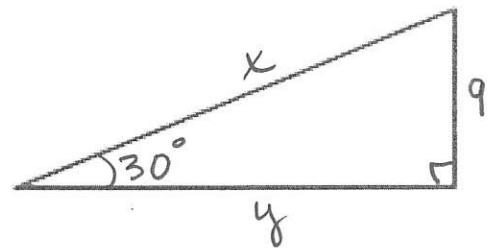
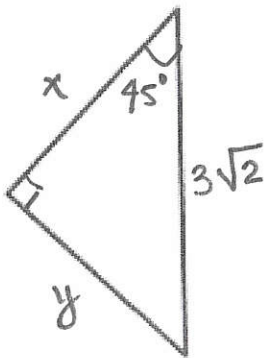
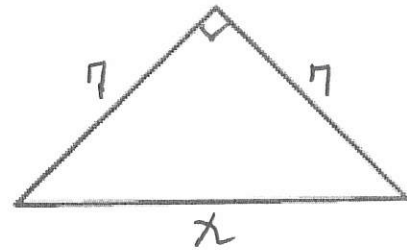
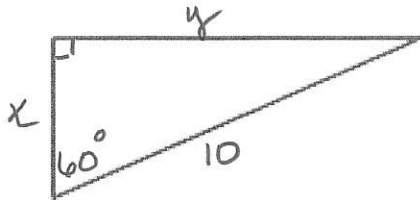
1) $\frac{5}{\sqrt{5}}$

2) $\frac{7x}{\sqrt{x}}$

3) $\frac{12}{\sqrt{3}}$

4) $\frac{y}{\sqrt{xy}}$

The following triangles are all right triangles of either 45, 45, 90 or 30, 60, 90 degrees. Find the missing side labeled "x", "y"



Section 10-7: find each indicated ratio

1. $\sin A$

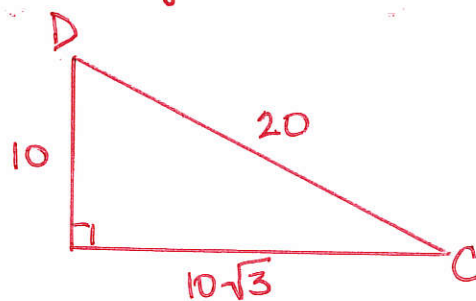
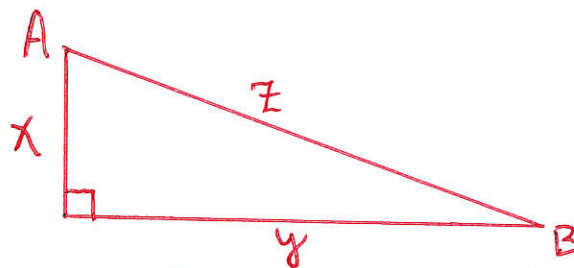
2. $\sin D$

3. $\cos B$

4. $\cos C$

5. $\tan B$

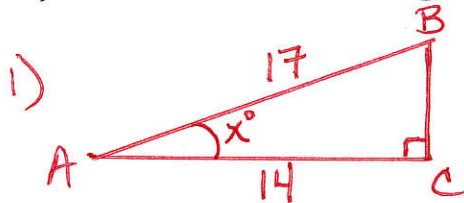
6. $\tan C$



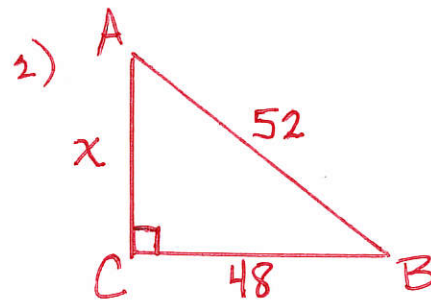
7-8) Find the ratio value or angle measure from page 529 that matches the below data:

1. $\sin 55$ degrees _____
2. $\cos 76$ degrees _____
3. $\tan 5$ degrees _____
4. $\tan 0.57$ _____
5. $\cos 0.999$ _____
6. $\sin 0.99$ _____

10-8) Solve the the following using trig ratios and page 529



$x^\circ =$ _____



$x =$ _____ (give in tenths)

Chp 10 word problems:

- 1) A ladder 12 meters long is resting against a wall and makes a 45 degree angle with the ground. A) How far up the wall does it reach? B) How far from the wall is the bottom of the ladder?

2) A hillside is inclined at 30 degree angle. If Joey hikes 50 meters up it how much altitude has he ascended?

3. Find the height of an equilateral triangle that has side lengths of 8cm. *Round 100th*

4. Rosie casts a shadow 9 feet long. Her dad standing behind her cast a shadow 11 feet long. If Rosie is 5 feet tall. How tall is her dad? *Round to tenths.*

5. How tall is the tree below? *Round to tenths.*

