For each angle, find the measure of an angle between 0° and 360° coterminal with the given angle.

1. – 148°   2. 1340°   3. – 645°

For each angle, sketch the angle in standard position. Give its reference angle.

4. 219°   5. – 286°   6. – 52°

For each angle: a) Sketch in standard position

b) Find the reference angle
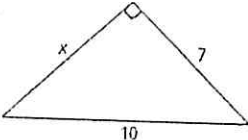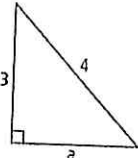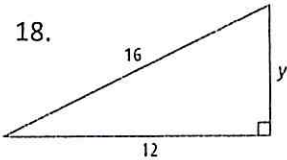
c) Draw and label the sides and angles of the reference triangle.

7. 210°   8. -300°   9. -45°   10. 330°   11. -135°   12. 120°
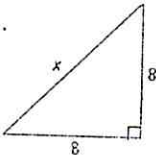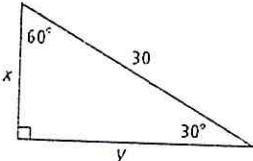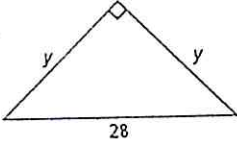
Express each of the following in simple radical form.

13. $\sqrt{216}$ 14. $\sqrt{80}$ 15. $\sqrt{150}$

Use the Pythagorean Theorem to find the value of the variable. Use simple radical form.

16.

17.

18.

Find the value of the variable(s). Use simple radical form. Leave no radicals in the denominator.

19.

20.

21.

22.