Section 7.3 Extra Practice

1. Write each trigonometric ratio.
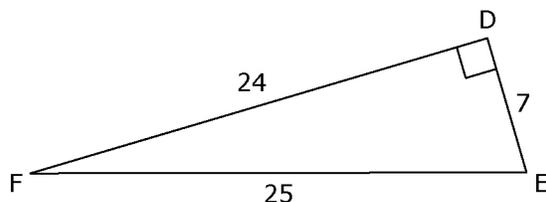
a) sin E
b) cos E
c) sin F
d) cos F

2. Use a scientific calculator to determine each ratio to three decimal places.

a) sin 15°
b) cos 22°
c) sin 38°
d) cos 53°
e) sin 79°
f) cos 86°

3. Sketch and label a right triangle to show each ratio.

**a)** sin M = $\dfrac{4}{5}$

b) cos P = $\dfrac{8}{17}$

4. Solve for x. Round each answer to one decimal place.

a) sin 25° = $\dfrac{x}{6}$

b) cos 43° = $\dfrac{x}{13}$

c) sin 64° = $\dfrac{8}{x}$

d) cos 75° = $\dfrac{24}{x}$

**5.** What is the value of x, to the nearest unit?

a)

b)

c)

d)

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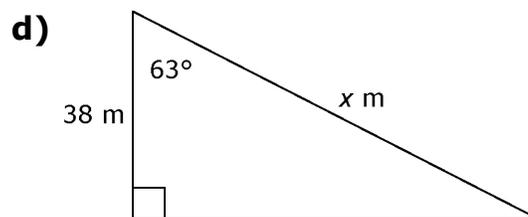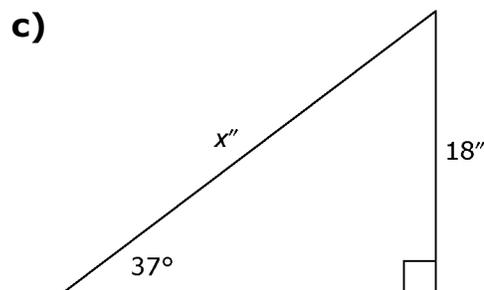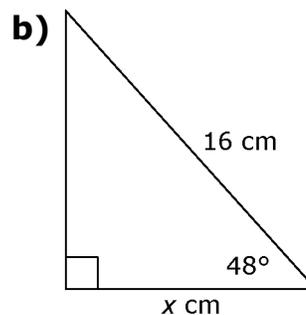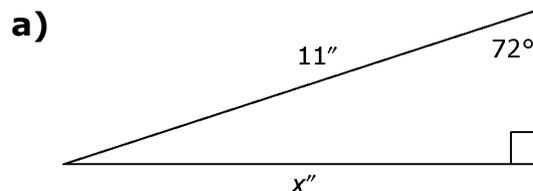
6. A child is flying a kite and has reeled out 15 m of string. The string makes an angle of 42° with the ground. How high is the kite?

15 m

h

42°
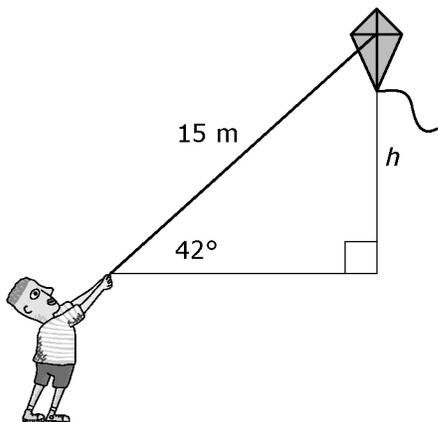
7. A ladder leaning against a wall makes an angle of 55° with the ground. How long is the ladder, if the foot of the ladder is 6 feet from the wall?

x'

55°

6′