Name _____ Hour _____

Trig Functions

Sin A° $= \dfrac{opposite}{hypotenuse}$ **Cos A°** $= \dfrac{adjacent}{hypotenuse}$ **Tan A°** $= \dfrac{opposite}{adjacent}$

A

Adjacent

Hypotenuse

B

Opposite

C
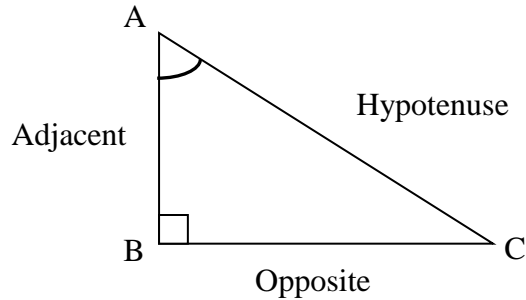
To find angles with trig functions, use inverse keys: Sin⁻¹ A°, Cos⁻¹ A°, Tan⁻¹ A°

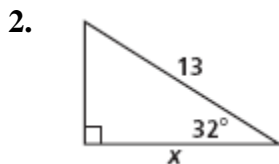**Write the sine, cosine and tangent ratios for $\angle E$ and $\angle F$ in reduced form. You are not solving.**

1. *E*

8   10

D   6   F
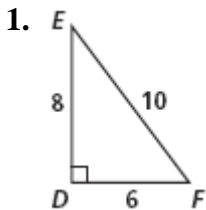
Find the value of *x*. Round lengths of segments to the nearest tenth.

2.

13

32°

x

3.

x

15

28°

4.

x

4

24°

5.

6

40°

x

6.

x

37°

3

7.

55°

20

x
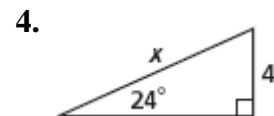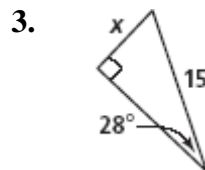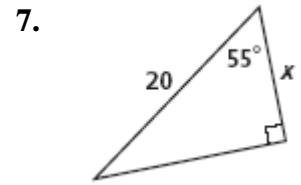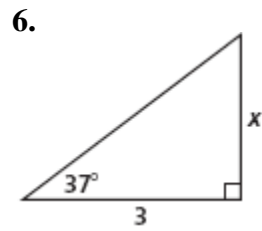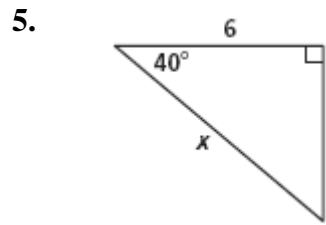
Find the value of the angle. Round your answers to the nearest whole degree.

8.

5

4

$x°$

9.

8

$x°$

18

10.

5

4

$x°$

11.

?

9

21

12.

42

40

?

13.

12

?

24