COSINE INTRODUCTION

Cosine (cos) = $\dfrac{adjacent}{hypotenuse}$

Hypotenuse

Opposite of ∠ A

A
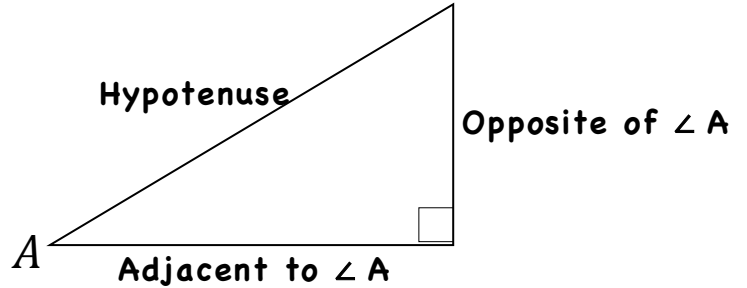
Adjacent to ∠ A

In each triangle place an "x" on the *hypotenuse.*

1

2.

3.
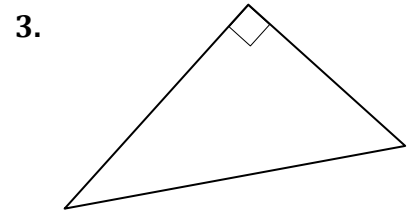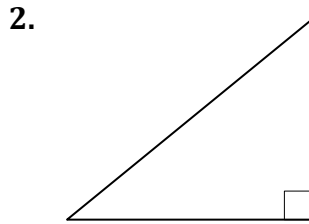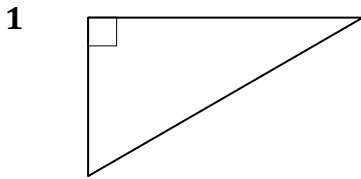
In each triangle place an "x" on the side *adjacent to ∠A*.
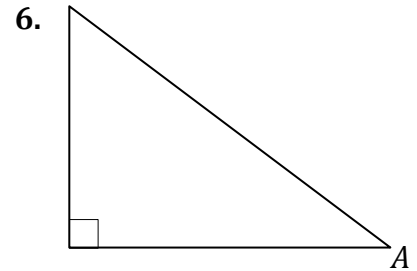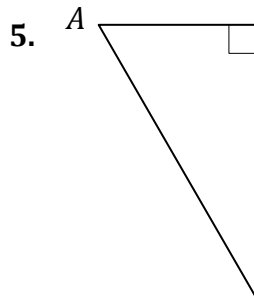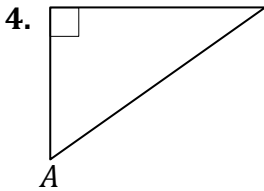
4.

A

5.

A

6.

A

Write a fraction in lowest terms that represents the cos *A*.

Example: $\dfrac{12}{13}$

5

13

12

A

7.

6

8

10

8.

12

9

7

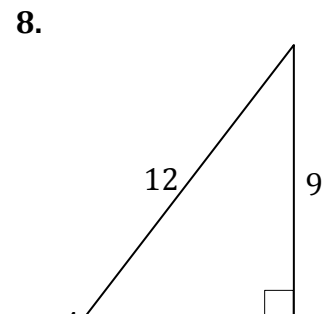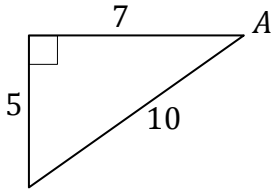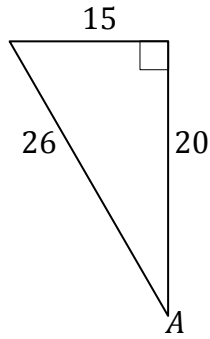**Write a fraction in lowest terms that represents the cos *A*.**

9.

```
    7        A
 ┌─────────
 │        /
5│     /10
 │  /
 │/
```

10.

```
      15
  ┌───────┐
   \      │
 26 \     │20
     \    │
      \   │
       \  │
        \ │
         \│
          A
```

11.

```
    /│
   / │
  /  │    25
13│  
 └────────────\
     17        A
```
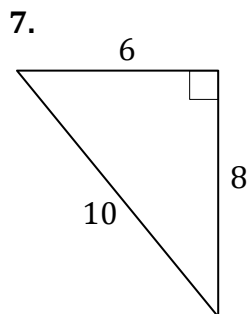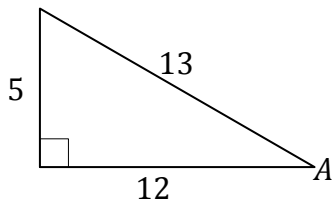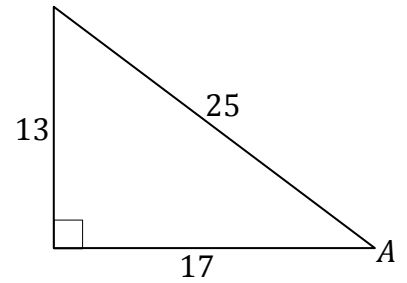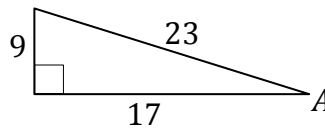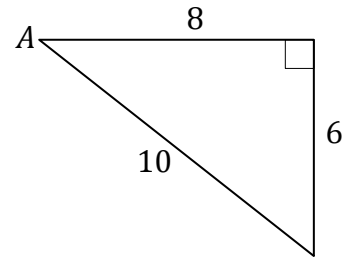
Find the value of the cos *A* to the nearest ten-thousandth (four places behind the decimal point) in each triangle.
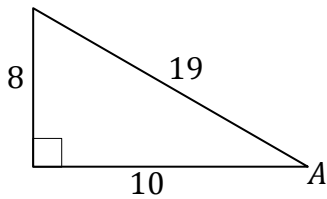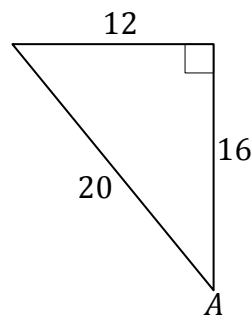
Example: $\dfrac{8}{12} = 0.6667$

12.

```
  9│\   23
   │ \
   └──────\
     17    A
```

13.

```
A        8
 \────────┐
  \       │
10 \      │6
    \     │
     \    │
```

14.

```
  │\    19
 8│ \
  └────────\
    10      A
```

15.

```
      12
  ┌──────┐
   \     │
    \    │16
  20 \   │
      \  │
       \ │
        \│
         A
```

16.

```
          /│
         / │
     13 /  │10
  A    /   
   \───────┐
      9
```