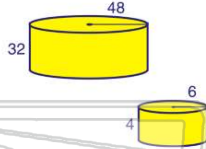




Name _____ Class _____ Date _____

1 What is the **ratio** of the volumes of the **larger** cylinder to the **smaller** cylinder for the similar cylinders shown?

- A 8
- B 64
- C 216
- D 512



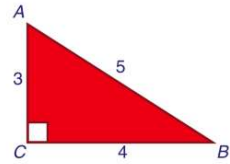
3 For the figure shown, what is the **cosine** of $\angle D$?

- A $\frac{12}{13}$
- C $\frac{13}{12}$



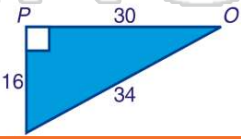
2 For the figure shown, the **sine** of $\angle B$ is ____?

- A $\frac{3}{5}$
- C $\frac{3}{4}$
- B $\frac{4}{5}$
- D $\frac{5}{3}$



4 For the figure shown, what is the **tangent** of $\angle N$?

- A $\frac{16}{34}$
- C $\frac{16}{30}$



5

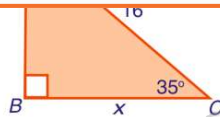


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7

- B 11
- C 13
- D 22



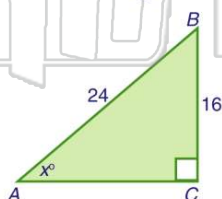
- B 11
- C 12
- D 13



9

What is the approximate measure of the **missing angle** of the triangle shown?

- A 34°
- B 42°
- C 48°
- D 99°



10

A person on a cliff sees a boat in the water **156 yards** away. If the boat is **98 yards** from shore, what is the **angle** from which the person sees the boat?

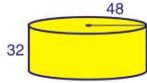
- A 32°
- B 39°
- C 51°
- D 58°



ANSWER KEY

What is the **ratio** of the volumes of the **larger** cylinder to the **smaller** cylinder for the similar cylinders shown?

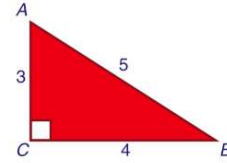
- A 8
- B 64
- C 216
- D 512



(d)

For the figure shown, the **sine** of $\angle B$ is ___?

- A $\frac{3}{5}$
- B $\frac{4}{5}$
- C $\frac{3}{4}$
- D $\frac{5}{3}$



(a)

For the figure shown, what is the **cosine** of $\angle D$?

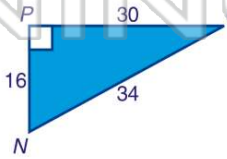
- A $\frac{12}{13}$
- B $\frac{5}{12}$
- C $\frac{13}{12}$
- D $\frac{12}{5}$



(b)

For the figure shown, what is the **tangent** of $\angle N$?

- A $\frac{16}{34}$
- B $\frac{30}{24}$
- C $\frac{16}{30}$
- D $\frac{30}{16}$



(d)

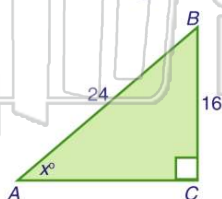


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What is the approximate measure of the **missing angle** of the triangle shown?

- A 34°
- B 42°
- C 48°
- D 99°



(b)

A person on a cliff sees a boat in the water **156 yards** away. If the boat is **98 yards** from shore, what is the **angle** from which the person sees the boat?

- A 32°
- B 39°
- C 51°
- D 58°

(b)