The next chapter is **Introduction to Trigonometry**. Here's a 20-question multiple-choice quiz based on the concepts from this chapter.

###	Introc	luction	to	Trigonom	ıetrv	Quiz

1. If sin(θ) = 1/2, then θ could be: A) 30° B) 45° C) 60° D) 90°
2. The value of $cos(90^{\circ} \theta)$ is: A) $sin(\theta)$ B) $cos(\theta)$ C) $-sin(\theta)$ D) $-cos(\theta)$
 3. What is the tan(θ) if sin(θ) = 3/5 and cos(θ) = 4/5? A) 3/4 B) 4/3 C) 5/3 D) 3/5
 4. For an acute angle θ, which ratio is correct for cosec(θ)? A) 1/sin(θ) B) 1/cos(θ) C) 1/tan(θ) D) sin(θ)
5. If tan(θ) = 1, then θ equals: A) 45° B) 30° C) 60° D) 90°
6. The trigonometric ratio that represents the ratio of the side opposite to the angle to the hypotenuse is:A) SineB) CosineC) TangentD) Cotangent
7. If $cot(\theta) = 1/\sqrt{3}$, then θ is: A) 30° B) 45° C) 60° D) 90°
8. The value of sec(0°) is: A) 0 B) 1 C) Undefined D) Infinity
9. What is the value of cosec(30°)? A) 1/2 B) $\sqrt{3}/2$ C) 2

D) 2/v3
10. The Pythagorean identity $sin^2(\theta) + cos^2(\theta)$ equals: A) 0
B) 1
C) tan(θ)
D) $sec(\theta)$
11. The value of tan(45°) is:
A) 1
B) 0
C) V2
D) √3
12. What is the $sin(90^{\circ} \theta)$?
A) $\cos(\theta)$
B) $\sin(\theta)$
C) $-\cos(\theta)$ D) $-\sin(\theta)$
13. If $cos(\theta) = 12/13$, what is $sin(\theta)$ for an acute θ ?
A) 5/13
B) 12/13
C) 5/12
D) √169/13
14. If $sec(\theta) = 13/5$, then $cos(\theta)$ is:
A) 5/13 B) 12/12
B) 12/13 C) 13/12
D) 5/12
15. What is the value of $cosec(\theta)$ if $sin(\theta) = 4/5$?
A) 5/4
B) 4/3
C) 3/4
D) 1/4
16. The trigonometric ratio for the side adjacent to the angle to the hypotenuse is:
A) Sine
B) Cosine C) Tangent
D) Secant
17. If θ is an acute angle and $\sin(\theta) = \cos(\theta)$, then θ is:
A) 30°
B) 45°
C) 60°
D) 90°
18. The value of $cot(\theta)$ when $tan(\theta) = \sqrt{3}$ is:
A) 1/V3
B) √3
C) 1/3 D) 3

19. If the hypotenuse of a right-angled triangle is 10 cm and one of the angles is 30°, the opposite side is:

A) 5 cm	
В)	
10 cm	
C) 5√3 cm	
D) 10/√3 ci	m
20. The recip	rocal of tan(θ) is:
A) $cot(\theta)$	
B) $sec(\theta)$	
C) cosec(θ))

Here is the answer key for the Introduction to Trigonometry quiz:

- 1. A) 30°
- 2. A) sin(θ)

D) $sin(\theta)$

- 3. A) 3/4
- 4. A) 1/sin(θ)
- 5. A) 45°
- 6. A) Sine
- 7. C) 60°
- 8. B) 1
- 9. C) 2
- 10. B) 1
- 11. A) 1
- 12. A) $cos(\theta)$
- 13. A) 5/13
- 14. A) 5/13
- 15. A) 5/4
- 16. B) Cosine
- 17. B) 45°
- 18. A) 1/v3
- 19. A) 5 cm
- 20. A) $cot(\theta)$

If you're ready for the next chapter, just let me know and we'll continue with the quiz for "Some Applications of Trigonometry".