Right Triangle Trigonometry — Practice Test

Prince Edward Island Foundations of Mathematics and Pre-Calculus 10 • 25 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A right triangle has hypotenuse 5 units and one leg 3 units. The other leg in units is**

ANSWER _____

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2 **A right triangle has legs 3 units and 4 units. The hypotenuse in units is**

ANSWER _____

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3 **In triangle work, what is the main purpose or meaning of adjacent side?**

A angle up from horizontal

B angle down from horizontal

C triangle with a 90 degree angle

D side next to an angle

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4 **In triangle work, what is the main purpose or meaning of angle of depression?**

A triangle with a 90 degree angle

B relates sides of a right triangle

C ratio of opposite over hypotenuse

D angle down from horizontal

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5 **In triangle work, what is the main purpose or meaning of angle of elevation?**

A angle down from horizontal

B angle up from horizontal

C triangle with a 90 degree angle

D relates sides of a right triangle

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6 **In triangle work, what is the main purpose or meaning of cosine?**

A ratio of opposite over adjacent

B longest side of a right triangle

C side across from an angle

D ratio of adjacent over hypotenuse

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7 **In triangle work, what is the main purpose or meaning of hypotenuse?**

A side across from an angle

B side next to an angle

C angle up from horizontal

D longest side of a right triangle

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8 **In triangle work, what is the main purpose or meaning of opposite side?**

A side next to an angle

B side across from an angle

C angle up from horizontal

D angle down from horizontal

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9 **In triangle work, what is the main purpose or meaning of Pythagorean theorem?**

A ratio of opposite over hypotenuse

B ratio of adjacent over hypotenuse

C ratio of opposite over adjacent

D relates sides of a right triangle

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10 **In triangle work, what is the main purpose or meaning of right triangle?**

A relates sides of a right triangle

B triangle with a 90 degree angle

C ratio of opposite over hypotenuse

D ratio of adjacent over hypotenuse

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11 **In triangle work, what is the main purpose or meaning of sine?**

A ratio of adjacent over hypotenuse

B ratio of opposite over hypotenuse

C ratio of opposite over adjacent

D longest side of a right triangle

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12 **In triangle work, what is the main purpose or meaning of tangent?**

A longest side of a right triangle

B ratio of opposite over adjacent

C side across from an angle

D side next to an angle

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13 **In triangle work, which term matches this description: angle down from horizontal?**

A right triangle

B Pythagorean theorem

C angle of depression

D sine

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14 **In triangle work, which term matches this description: angle up from horizontal?**

A angle of elevation

B angle of depression

C right triangle

D Pythagorean theorem

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15 **In triangle work, which term matches this description: longest side of a right triangle?**

A opposite side

B adjacent side

C hypotenuse

D angle of elevation

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16 **In triangle work, which term matches this description: ratio of adjacent over hypotenuse?**

A tangent

B hypotenuse

C cosine

D opposite side

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17 **In triangle work, which term matches this description: ratio of opposite over adjacent?**

A tangent

B hypotenuse

C opposite side

D adjacent side

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18 **In triangle work, which term matches this description: ratio of opposite over hypotenuse?**

A sine

B cosine

C tangent

D hypotenuse

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19 **In triangle work, which term matches this description: relates sides of a right triangle?**

A sine

B cosine

C Pythagorean theorem

D tangent

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20 **In triangle work, which term matches this description: side across from an angle?**

A opposite side

B adjacent side

C angle of elevation

D angle of depression

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21 **In triangle work, which term matches this description: side next to an angle?**

A angle of elevation

B angle of depression

C adjacent side

D right triangle

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22 **A right triangle has hypotenuse 10 units and one leg 6 units. The other leg in units is**

ANSWER _____

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23 **A right triangle has legs 6 units and 8 units. The hypotenuse in units is**

ANSWER _____

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24 **A right triangle has hypotenuse 13 units and one leg 5 units. The other leg in units is**

ANSWER _____

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25 **A right triangle has legs 5 units and 12 units. The hypotenuse in units is**

ANSWER _____

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ANSWER KEY

1.	4	**10.**	B	**19.**	C
2.	5	**11.**	B	**20.**	A
3.	D	**12.**	B	**21.**	C
4.	D	**13.**	C	**22.**	8
5.	B	**14.**	A	**23.**	10
6.	D	**15.**	C	**24.**	12
7.	D	**16.**	C	**25.**	13
8.	B	**17.**	A		
9.	D	**18.**	A		

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