MATHEMATICS 3202 · NEWFOUNDLAND AND LABRADOR

Mathematics 3202
Practice Test

Unit E: Geometry, Transformations and Trigonometry

25 Questions

Original practice test based on the Newfoundland and Labrador curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

A figure has a side length of 6 units. Under an enlargement with scale factor 2 , the image side length is, in units

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Question 2

A figure has area 20 units ^{2} . Under an enlargement with scale factor 2 , the image area is, in units ^{2}

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Question 3

A right triangle has hypotenuse 5 and one leg 3 . The other leg is

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Question 4

A right triangle has legs 3 *and* 4 . Its hypotenuse is

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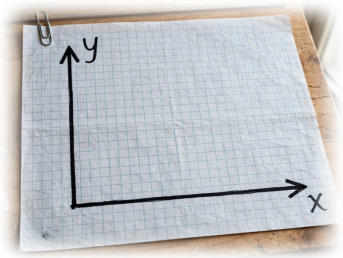

Question 5

The reflection of the point $(4,\ 3)$ in the x axis is

A) $(4,\ -3)$

B) $(-4,\ 3)$

C) $(-4,\ -3)$

D) $(4,\ 3)$

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Question 6

A triangle has an exterior angle of 95 degrees and one remote interior angle of 55 degrees. The other remote interior angle is, in degrees

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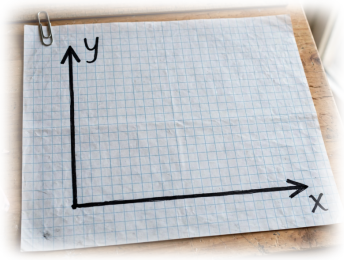

Question 7

The point $(1,\ 5)$ is translated -3 units right and 2 units up

A) $(4,\ 7)$

B) $(-2,\ 7)$

C) $(-2,\ 3)$

D) $(1,\ 5)$

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Question 8

A point is rotated 180° about the origin. The point $(4,\ 3)$ maps to a point with x coordinate

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Question 9

A point is rotated 180° about the origin. The point $(4,\ 3)$ maps to a point with y coordinate

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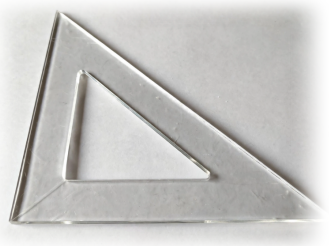

Question 10

In a right triangle with adjacent side 8 and hypotenuse 10 , cos θ is

A) $\frac{4}{5}$

B) $\frac{3}{5}$

C) $\frac{8}{3}$

D) $\frac{5}{4}$

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Question 11

In a right triangle with opposite side 5 and adjacent side 12 , tan θ is

A) $\frac{12}{5}$

B) $\frac{5}{12}$

C) $\frac{5}{13}$

D) $\frac{12}{13}$

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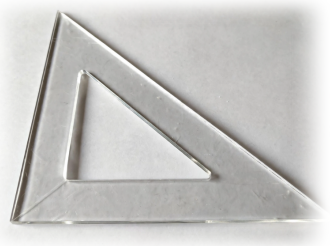

Question 12

In a right triangle with opposite side 6 and hypotenuse 10 , sin θ is

A) $\frac{3}{5}$

B) $\frac{4}{5}$

C) $\frac{3}{4}$

D) $\frac{5}{3}$

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Question 13

The point $(3,\ 4)$ is translated 2 units right and 1 units down

A) $(5,\ 3)$

B) $(1,\ 3)$

C) $(5,\ 5)$

D) $(3,\ 4)$

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Question 14

A figure has a side length of 9 units. Under an enlargement with scale factor 3 , the image side length is, in units

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Question 15

A figure has area 12 units ^{2}. Under an enlargement with scale factor 3, the image area is, in units ^{2}

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Question 16

A right triangle has hypotenuse 13 and one leg 5. The other leg is

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Question 17

A right triangle has legs 5 *and* 12. Its hypotenuse is

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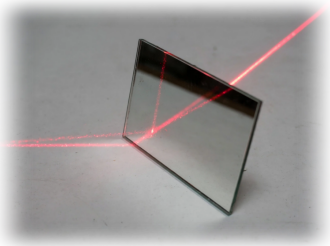

Question 18

The reflection of the point $(-2,\ 5)$ in the x axis is

A) $(2,\ 5)$

B) $(-2,\ -5)$

C) $(2,\ -5)$

D) $(-2,\ 5)$

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Question 19

A triangle has an exterior angle of 130 degrees and one remote interior angle of 55 degrees. The other remote interior angle is, in degrees

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Question 20

The point $(-2,\ 3)$ is translated 4 units right and 4 units up

A) $(-6,\ 7)$

B) $(2,\ -1)$

C) $(2,\ 7)$

D) $(-2,\ 3)$

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Question 21

A figure has a side length of 10 units. Under an enlargement with scale factor 0.5 , the image side length is, in units

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Question 22

A figure has area 8 units ^{2} . Under an enlargement with scale factor 4 , the image area is, in units ^{2}

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Question 23

A right triangle has hypotenuse 25 and one leg 7 . The other leg is

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Question 24

A right triangle has legs 6 *and* 8 . Its hypotenuse is

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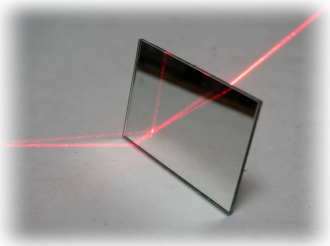

Question 25

The reflection of the point $(3, -6)$ in the x axis is

A) $(-3, -6)$

B) $(-3, 6)$

C) $(3, 6)$

D) $(3, -6)$

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ANSWER KEY

1.	12	**10.**	A	**18.**	B
2.	80	**11.**	B	**19.**	75
3.	4	**12.**	A	**20.**	C
4.	5	**13.**	A	**21.**	5
5.	A	**14.**	27	**22.**	128
6.	40	**15.**	108	**23.**	24
7.	B	**16.**	12	**24.**	10
8.	-4	**17.**	13	**25.**	C
9.	-3				

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