



Graphs of Trig Functions

Chapter: Trigonometry • Level ★★★ • Time: 30 min

SCORE

___ / 20

Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Find the amplitude of a sine or cosine graph.
- ✓ Find the period using $360^\circ/B$.
- ✓ Find maximum and minimum values.
- ✓ Identify key graph features.

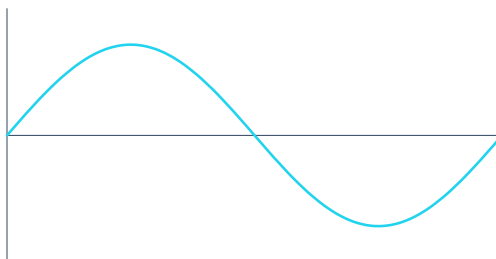


Section A • Concept Check

• BEGINNER

$4 \times 1 = 4$

- The amplitude of $y = 7\cos(x)$ is:
☐ A. 7 ☐ B. 1 ☐ C. -7 ☐ D. 14
- The period of $y = \sin(4x)$ is:
☐ A. 90° ☐ B. 360° ☐ C. 4° ☐ D. 1440°
- The period of $y = \cos(x/2)$ is:
☐ A. 720° ☐ B. 180° ☐ C. 360° ☐ D. 90°
- The minimum value of $y = 6\sin(x)$ is:
☐ A. -6 ☐ B. 6 ☐ C. 0 ☐ D. -1

 $y = \sin(x)$ over one full period (0 to 2π)

Section B • Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

- The amplitude of $y = A \sin(Bx)$ is _____.
- The period of $y = \sin(Bx)$ is _____.
- Find the amplitude of $y = 7\cos(x)$.

- Find the period of $y = \sin(4x)$.

- Find the period of $y = \cos(x/2)$.



Section C • Challenge

• CHALLENGE

5

- Find the minimum value of $y = 6\sin(x)$.

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature

Parent's Signature

⌘ ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 |A| 6 $360^\circ/B$ 7 = 7 8 = 90° 9 = 720° | 10 = -6

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