

FOMP 10 Chapter 3 Review Pack v1
Answer Section

SHORT ANSWER

1. ANS:
1.750
- PTS: 1 DIF: 1-2 OBJ: Section 3.1 NAT: M4
 TOP: The Tangent Ratio KEY: tangent ratio | calculate a tangent ratio | right triangle
2. ANS:
15 cm
- PTS: 1 DIF: 1-2 OBJ: Section 3.1 NAT: M4
 TOP: The Tangent Ratio KEY: tangent ratio | determine a distance using trigonometry | right triangle
3. ANS:
39 cm
- PTS: 1 DIF: 1-2 OBJ: Section 3.1 NAT: M4
 TOP: The Tangent Ratio KEY: Pythagorean theorem | right triangle | hypotenuse
4. ANS:
0.4245
- PTS: 1 DIF: 1-2 OBJ: Section 3.1 NAT: M4
 TOP: The Tangent Ratio KEY: tangent ratio | calculate a tangent ratio
5. ANS:
2.0503
- PTS: 1 DIF: 1-2 OBJ: Section 3.1 NAT: M4
 TOP: The Tangent Ratio KEY: tangent ratio | calculate a tangent ratio
6. ANS:
9°
- PTS: 1 DIF: 1-2 OBJ: Section 3.1 NAT: M4
 TOP: The Tangent Ratio KEY: tangent ratio | determine an angle measure
7. ANS:
68°
- PTS: 1 DIF: 1-2 OBJ: Section 3.1 NAT: M4
 TOP: The Tangent Ratio KEY: tangent ratio | determine an angle measure
8. ANS:
0.900
- PTS: 1 DIF: 1-2 OBJ: Section 3.1 NAT: M4
 TOP: The Tangent Ratio KEY: tangent ratio | calculate a tangent ratio

9. ANS:
0.8829

PTS: 1 DIF: 1-2
TOP: The Sine and Cosine Ratios

OBJ: Section 3.2 NAT: M4
KEY: sine ratio | calculate a sine ratio

10. ANS:
0.6561

PTS: 1 DIF: 1-2
TOP: The Sine and Cosine Ratios

OBJ: Section 3.2 NAT: M4
KEY: sine ratio | calculate a sine ratio

11. ANS:
0.53

$$BC = \sqrt{AB^2 - AC^2}$$

$$60 = \sqrt{68^2 - 32^2}$$

$$\tan(B) = \frac{32}{60}$$

$$= 0.53$$

PTS: 1 DIF: 3-4
TOP: The Tangent Ratio

OBJ: Section 3.1 NAT: M4
KEY: tangent ratio | calculate a tangent ratio | right triangle

12. ANS:
42°

PTS: 1 DIF: 3-4
TOP: Solving Right Triangles

OBJ: Section 3.3 NAT: M4
KEY: tangent ratio | determine an angle measure

13. ANS:
21°

PTS: 1 DIF: 3-4
TOP: The Tangent Ratio

OBJ: Section 3.1 NAT: M4
KEY: tangent ratio | determine an angle measure | right triangle

14. ANS:
8.8 m

PTS: 1 DIF: 3-4
TOP: Solving Right Triangles

OBJ: Section 3.3 NAT: M4
KEY: tangent ratio | determine a distance using trigonometry

15. ANS:
0.3 m

PTS: 1 DIF: 3-4
TOP: Solving Right Triangles

OBJ: Section 3.3 NAT: M4
KEY: tangent ratio | determine a distance using trigonometry

16. ANS:
8.2 m

PTS: 1 DIF: 3-4
TOP: Solving Right Triangles

OBJ: Section 3.3 NAT: M4
KEY: tangent ratio | determine a distance using trigonometry

17. ANS:
32°
- PTS: 1 DIF: 3-4 OBJ: Section 3.2 NAT: M4
TOP: The Sine and Cosine Ratios KEY: cosine ratio | determine an angle measure
18. ANS:
76°
- PTS: 1 DIF: 3-4 OBJ: Section 3.2 NAT: M4
TOP: The Sine and Cosine Ratios KEY: cosine ratio | determine an angle measure
19. ANS:
38°
- PTS: 1 DIF: 3-4 OBJ: Section 3.2 NAT: M4
TOP: The Sine and Cosine Ratios KEY: cosine ratio | determine an angle measure
20. ANS:
14°
- PTS: 1 DIF: 3-4 OBJ: Section 3.2 NAT: M4
TOP: The Sine and Cosine Ratios KEY: cosine ratio | determine an angle measure
21. ANS:
22 m
- PTS: 1 DIF: 5-6 OBJ: Section 3.1 NAT: M4
TOP: The Tangent Ratio KEY: tangent ratio | determine a distance using trigonometry
22. ANS:
5 cm
- PTS: 1 DIF: 5-6 OBJ: Section 3.1 NAT: M4
TOP: The Tangent Ratio KEY: tangent ratio | determine a distance using trigonometry
23. ANS:
17 cm
- PTS: 1 DIF: 5-6 OBJ: Section 3.1 NAT: M4
TOP: The Tangent Ratio KEY: tangent ratio | determine a distance using trigonometry
24. ANS:
19.9 cm
- PTS: 1 DIF: 5-6 OBJ: Section 3.1 NAT: M4
TOP: The Tangent Ratio KEY: tangent ratio | determine a distance using trigonometry | Pythagorean theorem | hypotenuse | right triangle
25. ANS:
67°
- PTS: 1 DIF: 5-6 OBJ: Section 3.3 NAT: M4
TOP: Solving Right Triangles KEY: tangent ratio | determine an angle measure

26. ANS:
91 cm²
- PTS: 1 DIF: 5-6 OBJ: Section 3.3 NAT: M4
TOP: Solving Right Triangles KEY: tangent ratio | right triangle | area
27. ANS:
48 cm²
- PTS: 1 DIF: 5-6 OBJ: Section 3.3 NAT: M4
TOP: Solving Right Triangles KEY: tangent ratio | right triangle | area
28. ANS:
68.7°
- PTS: 1 DIF: 7-8 OBJ: Section 3.3 NAT: M4
TOP: Solving Right Triangles KEY: tangent ratio | determine an angle measure
29. ANS:
607 km/h
- PTS: 1 DIF: 7-8 OBJ: Section 3.3 NAT: M4
TOP: Solving Right Triangles KEY: sine ratio | solve a right triangle