

Geometry B Semester Review

Chapters 7-12

[1] True _____

[2] True _____

[3] True _____

[4] False _____

[5] False _____

[6] False _____

[7] False _____

[8] False _____

[9] True _____

[10] True _____

[11] False _____

[12] True _____

[13] False _____

[14] True _____

[15] False _____

[16] False _____

[17] False _____

[18] C _____

[19] D _____

[20] B _____

[21] B _____

[22] B _____

[23] A _____

[24] D _____

[25] $a = 37^\circ, b = 74^\circ, c = 53^\circ, d = 127^\circ, e = 53^\circ$ _____

[26] $m\widehat{YE} = 76^\circ, m\angle OGE = 25^\circ, m\angle MOG = 52^\circ, m\angle MER = 25^\circ, m\angle GUM = 115^\circ$ _____

[27] translation _____

[28] $\sqrt{97}$ units _____

[29] $(3, -9)$ _____

[30] 4 cm _____

[31] $12\pi \text{ ft}^2$ _____

[32] squares _____

[33] $81\pi \text{ cm}^2$ _____

[34] $\frac{x}{\sqrt{3}} \left(\text{or } \frac{x\sqrt{3}}{3} \right); \frac{2x}{\sqrt{3}} \left(\text{or } \frac{2x\sqrt{3}}{3} \right)$

[35] perpendicular bisector

[36] 98 cm^2

[37] $(0, -4); 3 \text{ units}$

[38] $(x, -y)$

[39] $m^2 + n^2 = p^2$

[40] 150 in^2

[41] translation

[42] Answers will vary

[43] Answers will vary

[44] No; the side lengths do not work in the Pythagorean formula (that is, $5^2 + 7^2 \neq 9^2$).

[45] Isosceles; $LM = MN = \sqrt{20}$, while $LN = \sqrt{40}$.

[46] 6 cm^2

[47] 2400 cm^2

[48] 180 in^2

[49] $(18\pi - 36) \text{ cm}^2$

[50] 7 cm

[51] $170\pi \text{ ft}^2$

[52] $36\sqrt{3} \text{ cm}^2$

[53] 6 in.

[54] congruent; proportional

[55] 35 cm^2

[56] $\pi\left(\frac{x}{2}\right)^2 h$, or $\frac{\pi x^2 h}{4}$

[57] parallel

[58] mass; volume

[59] $\frac{512}{729}$

[60] $\frac{3}{4}$

[61] 54 cm^2

[62] 175.93 cm^3

[63] $x = 18 \text{ cm}$, $y = 12 \text{ cm}$

[64] 21.85 cm

[65] 10 cm

[66] 51.42 cm^3

[67] 11.11 cm

[68] 3 cm

[69] 34.56°

[70] 23.54 cm

[71] 8.97 g/cm³

[72] 84 ft, or 28 yd

[73] 66 m
