Geometry Final Review Answers

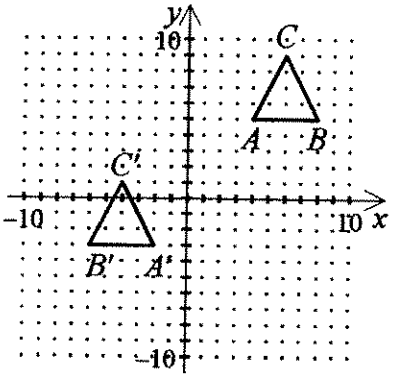
[1] 5

[2] A

[3] $P'(4, 5)$, $Q'(4, 0)$, $R'(0, 0)$

A. (1, –3)
B. (9, 8)
[4] C. The segment with endpoints (1, –3) and (6, 10)

[5] $\vec{v} = \langle 5, -4 \rangle$



[6]

[7] [A]

[8] [A]

[9] 1:5

[10] $x = \frac{77}{8}$

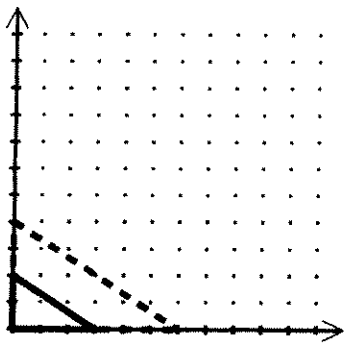
[11] [D]

[12] [A]

[13] [D]

[14] ~~9.8~~ 9.5

[15] Yes; $\frac{143}{121} = \frac{39}{33}$

[16] 

[17] 17 : 1

[18] $a = 9, b = 15$

[19] [C]

[20] 13

[21] A. acute triangle, B. right triangle, C. no triangle

[22] $x = 6\sqrt{2}, y = 6 + 6\sqrt{3}$ or $6(1 + \sqrt{3})$

[23] 6

[24] A. $\frac{a}{c}$ B. $\frac{b}{a}$ C. $\frac{b}{c}$

[25] [D]

[26] $\langle -6, -17 \rangle$, $5\sqrt{13}$

[27] $\langle 7, 5 \rangle$

[28] [D]

[29] 135° 135°

[30] $\overset{\frown}{AB} \cong \overset{\frown}{BC}$; $\overset{\frown}{DA} \cong \overset{\frown}{GD}$

[31] $m\overset{\frown}{ABD} =$ 268° 268°, $m\angle C =$ 46° 46°

[32] A. $m\angle Z = 70°$ B. $m\overset{\frown}{WZ} = 110°$ C. $m\angle W = 80°$ D. $m\overset{\frown}{WX} = 90°$

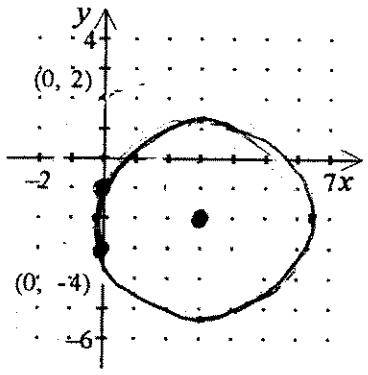
[33] 115°

[34] 70°

[35] 40°

[36] [D]

[37] 44.3



center $(3, -2)$

$r = \sqrt{10} \approx 3.2$

[38]

[39] 24

[40] 107.0 cm^2 $\approx 108.46 cm^2$

[41] A = 2645, P = 72

[42] 100 cm; 50 cm; 27.78π cm 87.3cm

[43] 49.0083

[44] $\frac{\pi}{8} \approx .3927 \approx 39.27\%$

[45]

$(32\sqrt{3} + 240) cm^2 \approx 295.4256 cm^2$

[46] $65\pi \text{ in}^2 \approx 204.2035 \text{ in}^2$

[47] $SA = 75.4 \text{ ft}^2$ $V = 50.3 \text{ ft}^3$

$SA = 24\pi \text{ ft}^2 \approx 75.39 \text{ ft}^2$; $V = 16\pi \text{ ft}^3 \approx 50.2655 \text{ ft}^3$

[48] $V = \frac{88}{3} \text{ yd}^3 \approx$ [illegible] 29.3 yd^3

[49] [A] $\approx 716.3 \text{ cm}^3$

[50] A. $\frac{5}{3}$, B. $\frac{25}{9}$, C. $\frac{125}{27}$