

16-17 ACP Geometry – Final Exam REVIEW

Chapter 8

- $x=20$
- yes, AA~ 3. No 4. AA~, SAS~, SSS~
- 58° 6. $x=4$ 7. 1:12
- a) 10.4 b) 29.6 c) 18
- a) $\frac{3}{7}$ b) $\frac{9}{49}$
- 304 sq. in.
- $x=13.5$ $y=20.25$
- $x=3.4$ $y=4.47$
- $x=28$
- $x=1.78$
- $y=7.2$
- $x=180$ $y=108$
- 40 ft
- $y=7.5$
- $x=6$
- $a=4.5$ $b=7.5$

Chapter 12

- $J'(1,-4)$, $A'(3,-5)$, $R'(2,-1)$
- $J'(-1,4)$, $A'(-3,5)$, $R'(-2,1)$
- C
- a. $S'(6,1)$, $U'(2,-3)$, $B'(-1,0)$
- b. $S'(-8,1)$, $U'(-4,5)$, $B'(-1,2)$
- c. $S'(-6,1)$, $U'(-2,5)$, $B'(1,2)$
- d. $S'(6,-1)$, $U'(2,-5)$, $B'(-1,-2)$
- E
- $\langle -2,4 \rangle$
- C
- $\langle 4,-2 \rangle$
- Check drawn answers.
- Check drawn answers.
- $\frac{3}{2}$
- $\frac{1}{2}$
- $A'(1,-1)$, $B'(0.5,-1)$, $C'(1,1)$
- $W'(-4,4)$, $H'(0,0)$, $A'(0,-4)$, $T'(-2,-4)$
- Line Symmetry: Vertical through the center
Rotational Symmetry: None
- Line Symmetry: Vert. and Horiz. through center
Rotational Symmetry: 180°

Chapter 7

- $24(36) = 27h \rightarrow 864 = 27h \rightarrow 32 = h$
- $3\sqrt{2}(\sqrt{2}) = 3\sqrt{4} = 3 \cdot 2 = 6$
- $x^2 = 50 \rightarrow x = \sqrt{50} \rightarrow \text{diagonal} = \sqrt{50}(\sqrt{2}) = \sqrt{100} = 10$
- $s\sqrt{3}$

- $6\sqrt{3}$
- $x = 17\sqrt{3}$ $y = 34$
- $\frac{1}{2}(6+10)(4\sqrt{3}) = 32\sqrt{3} \text{ ft}^2$
- $\frac{1}{2}(9.2)(8) = 36.8 \text{ ft}^2$
- $\frac{1}{2}(16)(16) = 128 \text{ m}^2$
- Radius of each circle is 1 in , therefore each side of the square is 2 in .
Area of square = 4 in^2 , area of circle = $1\pi \text{ in}^2$
Square – Circle $\rightarrow (4 - \pi) \text{ in}^2$
- $\frac{1}{2}(2)(5.4) = 5.4 \text{ cm}^2$
- $x^2 + 6^2 = 15^2 \rightarrow x = \sqrt{189} = \sqrt{9} \cdot \sqrt{21} = 3\sqrt{21}$
- 5.5 sq.in
- 66.2 sq.in
- 41.9 sq.in
- 23.085 sq.in
- 126.6 sq.in
- 16.7 in
- 7 in
- 50.2 in

Chapter 9

- $x=13.76$
- $x=13.95$
- $x=3.85$
- $x=24.50$
- $x=51.32$
- $x=57.99$
- Hypotenuse = 32,616.19969 ft

Chapter 10

- 6 gallons of paint
- L.A. = 279.84 cm^2
S.A. = 423.84 cm^2

L.A. = 126 u^2

L.A. = 439.6 in^2
S.A. = 747.32 in^2

$$L.A. = 141.3 \text{ cm}^2$$

$$S.A. = 169.56 \text{ cm}^2$$

$$3. V = 308 \text{ ft}^3$$

$$4. V = 17 \text{ m}^3$$

$$5. V = 490\pi \text{ in}^3$$

$$6. V = 438 \text{ mm}^3$$

$$7. V = 480 \text{ cm}^3$$

$$8. V = 829 \text{ m}^3$$

$$9. S.A. = 256\pi \text{ cm}^2$$

$$10. V = 523 \text{ mm}^3 \text{ or } 524 \text{ mm}^3$$

$$11. V = 1766 \text{ cm}^3 \text{ or } 1767 \text{ cm}^3$$

Chapter 11

$$1. 38^\circ$$

$$2. 66^\circ$$

$$3. 12$$

$$4. 72 \text{ cm}$$

$$5. 74 \text{ in}$$

$$6. 18$$

$$7. 12$$

$$8. 5$$

$$9. 48.5^\circ$$

$$10. x = 78.5^\circ, y = 64^\circ$$

$$11. x = 105^\circ, y = 133.5^\circ, w = 26^\circ$$

$$12. (x-2)^2 + (y+7)^2 = 49$$

$$13. (x+10)^2 + (y+5)^2 = 125$$

$$14. (x-4)^2 + (y-2)^2 = 16$$

$$15. C(5, -9); r = 6\sqrt{2}$$