

Homework 5.2 Solutions

1) $x = \frac{20\sqrt{3}}{3}, y = 10$

2) $a = 2, b = \frac{2\sqrt{3}}{3}$

3) $x = 16, y = 8$

4) $x = 10\sqrt{3}, y = 5\sqrt{6}$

5) $x = 3\sqrt{3}, y = 3$

6) $x = 6\sqrt{5}, y = 3\sqrt{5}$

7)

8)

a) ~~1.57 rad~~ $\pi/4$

a) ~~90°~~ 90°

b) $\pi/6; 0.52 \text{ rad}$

b) ~~64.74~~ 64.74

c) $3\pi/4; 2.36 \text{ rad}$

c) 120°

d) $19\pi/12; 4.97 \text{ rad}$

d) 210°