

Honors Trigonometry
Section 11.1 (1)

Name: _____

1. Change from polar to rectangular coordinates.

a. $(2, 225^\circ)$

b. $\left(-4, \frac{\pi}{3}\right)$

2. Change from rectangular to polar coordinates.

a. $(-\sqrt{3}, 3)$

b. $(0, -4)$

3. Find the rectangular coordinates to three decimal places.

a. $(1, 65^\circ)$

b. $(2, -3)$

4. Find the polar coordinates for the following. Find r to the nearest tenth and θ to the nearest radian.

a. $(8, -6)$

b. $(-1, -4)$

Answer Sheet
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1.a $(-\sqrt{2}, -\sqrt{2})$

b. $(-2, -2\sqrt{3})$

2.a. $(2\sqrt{3}, 120^\circ)$ or $\left(2\sqrt{3}, \frac{2\pi}{3}\right)$

b. $(4, 270^\circ)$

3.a. $(.423, .906)$

b. $(-1.980, -.282)$

4.a. $(10, 5.63)$

b. $(\sqrt{17}, 4.30)$