

BLM 4-3 Section 4.2 Extra Practice

1. a) $x^2 + y^2 = 16$ b) $x^2 + y^2 = 5$

c) $x^2 + y^2 = 82.81$ d) $x^2 + y^2 = 121$

2. $\left(-\frac{5}{13}, \frac{12}{13}\right)$ and $\left(-\frac{2}{3}, -\frac{\sqrt{5}}{3}\right)$; When the

coordinates are substituted into $x^2 + y^2 = 1$, the LHS equals the RHS.

3. a) $\left(-\frac{2}{3}, -\frac{\sqrt{5}}{3}\right)$ b) $\left(-\frac{3}{5}, \frac{4}{5}\right)$

c) $\left(\frac{5}{6}, -\frac{\sqrt{11}}{6}\right)$ d) $\left(\frac{4\sqrt{3}}{7}, \frac{1}{7}\right)$

4. a) $\left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$ b) $(0, -1)$

c) $\left(\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$ d) $\left(-\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$

5. a) $\left(-\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$ b) $\left(-\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$

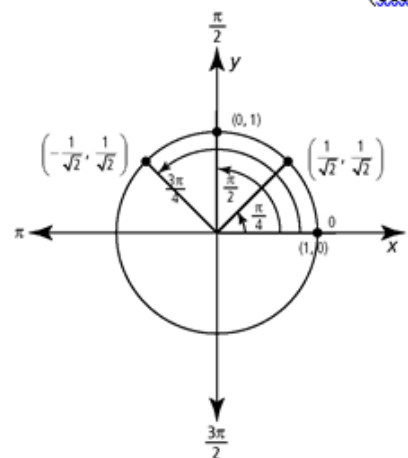
c) $(1, 0)$ d) $\left(\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$

6. a) 225° b) 180° c) 315° d) 240°

7. a) 0π b) $\frac{5\pi}{3}$ c) $\frac{5\pi}{6}$ d) π

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8.



9. a) $\left(-\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$ b) $\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$

10. a) $\left(\frac{1}{\sqrt{2}}, -\frac{1}{\sqrt{2}}\right)$ b) $\left(-\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$