

College Algebra Even Answers

PS96

2] 49.14 minutes 4] 5 mph 6] PROOF 8] $A = 51.54^\circ$, area = 51.14 cm^2 10] GRAPH

12] $\frac{\sqrt{2}-\sqrt{6}}{4}$ 14] $\frac{2\pi}{3}, \frac{4\pi}{3}$ 16] $2.24\text{cis}26.57^\circ; 2.24\text{cis}206.57^\circ$ 18] ${}_8P_3 = 336; {}_8C_3 = 56$

20] -16, -12, -8 22] $\frac{y^2}{9} - \frac{x^2}{16} = 1$; vertices: $(0, \pm 3)$; asymptotes: $y = \pm \frac{3}{4}x$; GRAPH 24] 403.06 cm^2

26] -1.94 28] $\frac{17}{25}$ 30] $x^2 - y^2$

PS 97

2] $\frac{2}{5}$ 4] $H = 32; S = 56; C = 40$ 6] 10.10; 2.38 8] PROOF 10] PROOF

12] GRAPH 14] GRAPH 16] $90^\circ, 210^\circ, 330^\circ$ 18] $2.11\text{cis}40.67^\circ; 2.11\text{cis}160.67^\circ; 2.11\text{cis}280.67^\circ$

20] -12, -9, -6 22] $\frac{x^2}{4} - \frac{y^2}{4} = 1$; vertices: $(\pm 2, 0)$; asymptotes: $y = \pm x$; GRAPH 24] 70.53 cm

26] 2 28] -1 30] $\left(x + \frac{5}{2} - \frac{\sqrt{43}}{2}i\right)\left(x + \frac{5}{2} + \frac{\sqrt{43}}{2}i\right)$

PS98

2] 168.59 4] $\frac{mf}{f+m}$ hr 6] 450 laps 8] 2.45 10] 2^8

12] no solution 14] PROOF 16] PROOF 18] GRAPH 20] GRAPH

22] $\frac{\pi}{6}, \frac{\pi}{2}, \frac{3\pi}{2}, \frac{11\pi}{6}$ 24] $1.85\text{cis}113.86^\circ; 1.85\text{cis}233.86^\circ; 1.85\text{cis}353.86^\circ$

26] $\frac{x^2}{72} + \frac{y^2}{50} = 1$; $MA = 12\sqrt{2}$; $ma = 10\sqrt{2}$; GRAPH 28] $\frac{81}{64}$ 30] D

PS99

- 2] 31.06 yr 4] $\frac{F+6}{r+4}$ hr 6] multiplied by 18 8] 3 and 27
- 10] arithmetic mean = 15; geometric mean = $\pm 4\sqrt{11}$ 12] 2.18 14] 1.2 16] 2.01; 9.46
- 18] PROOF 20] a = 624.50 cm; area = 151,554.45 cm² 22] GRAPH 24] $\frac{\sqrt{3}}{2}$
- 26] 37.5°, 52.5°, 127.5°, 142.5°, 217.5°, 232.5°, 307.5°, 322.5° 28] $\frac{x^2}{25} + \frac{y^2}{21} = 1$; GRAPH
- 30] $\left(x + \frac{1}{2} - \frac{\sqrt{3}}{2}i\right)\left(x + \frac{1}{2} + \frac{\sqrt{3}}{2}i\right)$

PS100

- 2] $16\frac{4}{11}$ min 4] $\frac{14m}{d+km}$ items 6] ${}_{11}P_4 = 7920$; ${}_{11}C_4 = 330$ 8] Refer to lesson 100
- 10] Refer to lesson 100 12] 4, 16 and -4, -16 14] 2.64 16] 1 18] no solution
- 20] PROOF 22] A = 33.17°; B = 46.83° 24] GRAPH 26] $\frac{\pi}{3}, \frac{5\pi}{3}$
- 28] 1.5cis80.78°, 1.5cis170.78°, 1.5cis260.78° 1.5cis350.78° 30] 1