

## College Algebra Even Answers

**PS 63:** 2] 35 4] 12 6]  $\frac{ma - mb}{ab}$  hours 8] Onlookers=850, Bystanders=200

10]  $(x-4)^2 + (y+1)^2 = 2^2$ ,  $C(-4,3)$ ,  $r=2$  12] Range=14, Median=18, SD = 5.22

	14] <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border-bottom: 1px solid black; padding: 0 5px;">Stem</td><td style="border-bottom: 1px solid black; padding: 0 5px;">Leaf</td></tr><tr><td style="padding: 0 5px;">5</td><td style="padding: 0 5px;">6</td></tr><tr><td style="padding: 0 5px;">6</td><td style="padding: 0 5px;">2 3 4 5 7</td></tr><tr><td style="padding: 0 5px;">7</td><td style="padding: 0 5px;">0 2 4 6 8</td></tr><tr><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">0 1 3 9</td></tr></table>	Stem	Leaf	5	6	6	2 3 4 5 7	7	0 2 4 6 8	8	0 1 3 9
Stem	Leaf										
5	6										
6	2 3 4 5 7										
7	0 2 4 6 8										
8	0 1 3 9										

16]  $0^\circ, 180^\circ$  18] 7 20]  $y = 2(x-3)^2 - 9$

22]  $y = -3 + 5 \sin \frac{1}{2}x$  24] 1542.69 sq. cm.

26] Graph - shade in circle & above both lines

28] 0 30] 26

**PS 64:** 2] 50 4]  $\frac{(10)(75)(2.54)(60)}{100(1000)} \frac{\text{km}}{\text{hr}} = 1.143$  6]  $\frac{mr - mb}{br}$  hours

8] a]  $6.32 \text{cis} 18.43^\circ$  b]  $\frac{5\sqrt{3}}{2} + \frac{5}{2}i$  10] -6 12]  $(x+3)^2 + (y-2)^2 = 2^2$ ,  $C(-3,2)$ ,  $r=2$

14] 7 to 27 16]  $270^\circ$  18]  $0^\circ, 45^\circ, 180^\circ, 225^\circ$  20] 3 22]  $7\sqrt{2}$

24]  $y = 6 - 4 \cos \frac{2}{3}x$  26] 676.30 sq.cm. 28] 1 30]  $\frac{x}{12} + \frac{y}{12} = 1$

**PS 65:** 2] 26 4]  $\frac{(45)(1000)(100)}{(30)(60)} \frac{\text{rad}}{\text{min}} = 2500$  6]  $\frac{50(2h+4)}{m+x}$  hours

8]  $\frac{500(k^2x+m)}{d}$  pencils 10]  $\frac{\pi}{3}, \frac{2\pi}{3}, \frac{7\pi}{6}, \frac{11\pi}{6}$  12] a]  $5.83 \text{cis} 59.04^\circ$  b]  $3 + 3\sqrt{3}i$

14]  $9 + 9\sqrt{3}i$  16]  $x = \frac{gf - hd}{af - cd}$  18] 68% 20] 2 22] 9

24]  $y = 6 + 10 \sin \frac{2}{7}\theta$  26]  $\frac{7\sqrt{85}}{85} \approx .759$  28]  $\frac{(600)(1000)(100)}{(2.54)(12)(5280)} \frac{\text{mi}}{\text{hr}} \approx 373.823$  30] D

**PS 66:** 2] 84 4]  $\frac{(12)(5280)(12)}{(13)(60)} \frac{\text{rad}}{\text{min}} \approx 974.769$  6]  $\frac{mz - ma}{az}$  hours

8]  $y = -1 - 8 \cos 2x$  10]  $30^\circ, 210^\circ$  12] Log Graph (1,0) and (3,1) 14]  $4 \text{cis} 350^\circ$

16]  $(x-4)^2 + (y+3)^2 = 3^2$ ,  $C(4,-3)$ ,  $r=3$  18] 3

20] Mean=264.13, SD=110.25, Min=102, Q1=163.5, Med=266, Q3=337.5, Max=491

22]  $x=2.4$  24]  $\frac{145}{8}$  26] 1440.54 sq.cm. 28]  $\frac{3}{2}$  30]  $\frac{-1}{2(x+h)(x-h)}$