College Algebra Even Answers

PS 51: 2] 130 4] 15 hr 6] 8 8] a] .5441 b] 1.2528

10] $240^\circ, 300^\circ$ 12] Refer to L49 14] $\left(\frac{3}{2}, 3\right)$ 16] 5x + y – 4 = 0

18] $y = 10 - 20\cos\theta$ 20] $4(x+1-\sqrt{6}i)(x+1+\sqrt{6}i)$ 22] $(x+3)^2 + (y-2)^2 = 25$

24] 6384 26] Yes 28] $y = -\sqrt{x-2}$ 30] 2x+1

PS 52: 2] 80 4] $\frac{56}{13}$ hr 6] $ 56 8] W = 5 mi/hr, B = 10 mi/hr

10] $60^\circ, 120^\circ, 240^\circ, 300^\circ$ 12a] 1.2122 b] 2.7912 14] $\frac{11}{6}$

16] $\frac{x}{10} + \frac{y}{2} = 1$ 18] $y = 2 - 8\cos\theta$ 20] $(x+2-i)(x+2+i)$

22] $(x-h)^2 + (y-k)^2 = r^2$ 24] $\frac{20}{9}$ 26] 25 28] 5 30] A

PS 53: 2] 9424.78 m 4] $\frac{hm}{m+p}$ hr 6] 400 francs

8] $\frac{30(10)^3}{(2.54)^3}\text{in}^3 \approx 1830.712$ 10] $60^\circ, 120^\circ$ 12] 180° 14] $e^{8.5942}$

16] $\frac{11}{4}$ 18] y = 1 + 5cosx 20] $x^2 + 2x + 9 = 0$ 22] $\left(x-\sqrt{3}\right)^2 + (y+2)^2 = 5^2$

24] $\frac{225}{2}$ 26] Yes 28] $y = -x^2 + 4$ 30] 2x

PS 54: 2] $\frac{30(1000)(100)}{60(70)}\frac{\text{rad}}{\text{min}} \approx 714.285$ 4] 418.88 m 6] 16 hr

8] $y = (x-3)^2 - 5$ 10] $\frac{40(5280)(12)(2.54)}{60(60)}\frac{\text{cm}}{\text{sec}} = 1788.16$ 12] $135^\circ, 225^\circ$

14] $0^\circ, 180^\circ$ 16] $e^{8.0392}$ 18] -1 20] $\frac{x}{-\frac{7}{4}} + \frac{y}{7} = 1$

22] $y = 6 + 6\cos\theta$ 24] S=-.089T + 14.47 ; good correlation

26] curve High to Low 28] $-\frac{25}{6}$ 30] C