

College Algebra Even Answers

PS 67: 2] B=20mph, B=4mph 4] \$1 per doz eggs, 50cents per lb.flour

6] 25 8] a] 9 b] $\frac{1}{9}$ 10] $y = 4 + 6 \sin \frac{2}{3} \theta$ 12] a] $13 \text{cis} 292.62^\circ$ b] $-\frac{7\sqrt{3}}{2} - \frac{7}{2}i$

14] $-3\sqrt{3} - 3i$ 16] $y = \frac{bc - ad}{cg - df}$ 18] 47.5% 20] $\frac{\pi}{3}, \frac{3\pi}{4}, \frac{5\pi}{3}, \frac{7\pi}{4}$

22] $40^\circ, 80^\circ, 160^\circ, 200^\circ, 280^\circ, 320^\circ$ 24] 1, 3. 26] 3

28] 395.98 sq.cm. 30] $\frac{(80)(1000)(100)}{(2.54)(5280)(12)} \frac{\text{mi}}{\text{hr}} \approx 49.710$

PS 68: 2] 126 4] $\frac{(15)(5280)(12)}{60(400)} \text{in} = 39.6$ 6] $\frac{750w^3 a^2}{g} \text{stereos}$

8] V (0,0), Parabola: $y = \frac{1}{12}x^2$ 10] 25 ft. 12] Stem/Leaf 14] $y = 3 + 3 \cos \pi \theta$

16] $\frac{15\sqrt{3}}{2} + \frac{15}{2}i$ 18] $x = \frac{ws + kd}{wa + bd}$ 20] $0, \pi, \frac{7\pi}{6}, \frac{11\pi}{6}$

22] $67.5^\circ, 157.5^\circ, 247.5^\circ, 337.5^\circ$ 24] 0 26] 2, 3 28] 116 30a] 125 b] 81

PS 69: 2] p is multiplied by 32 4] $\frac{x}{k-20} \frac{\text{mi}}{\text{min}}$ 6] -38

8] D: $y = \frac{3}{10}$, AS: $x=0$, P: $y = -\frac{5}{6}x^2$

10] Mean=.17, Med=-.5, Var=9.14, SD=3.02, No Mode exists

12] Log Graph (1,0) $\left(\frac{5}{3}, 1\right)$ and $\left(\frac{3}{5}, -1\right)$ 14] $y = -3 + 10 \sin 3(\theta - 20^\circ)$

16] a] $6.32 \text{cis} 341.57^\circ$ b] $-\frac{5\sqrt{2}}{2} + \frac{5\sqrt{2}}{2}i$ 18] Shade inside Parabola & below line.

20] 1764.31 sq.cm. 22] $0, \pi, \frac{7\pi}{6}, \frac{11\pi}{6}$

24] 150° 26] $x^2 - 2\sqrt{2}x + 3 = 0$ 28] 1 30] $f(x) = \ln x; g(x) = \log x$

PS 70: 2] 4 hours 4] J is doubled 6] 81.85% 8] 3

10] D: $y = -6$, AS: $x = 2$, P: $y = \frac{1}{20}(x-2)^2 - 1$

12] $(x-2)^2 + (y+3)^2 = 21$ C(2,-3) $r = \sqrt{21}$ 14] $y = 12 + 2 \cos \frac{2}{3} \left(x - \frac{\pi}{2} \right)$

16] $\frac{15 - 15\sqrt{3}i}{2}$ 18] $\frac{\pi}{6}, \frac{\pi}{4}, \frac{3\pi}{4}, \frac{11\pi}{6}$

20] -30° 22] Mean=4, Med=3.5, Var=7.33, SD=2.71, Mode=1 24] .040 sq ft.

26] 1 28] $\frac{7\sqrt{5}}{25} \approx .626$ 30] D

PS 71: 2] B=2, R=4, W=7 4] $\frac{20}{9}$ 6] L=100, W=17, H = 33

8] $\frac{x^2}{4} + \frac{y^2}{9} = 1$ 10] ± 2

12] D: $y = 0$, AS: $x = 1$, P: $y = \frac{1}{8}(x-1)^2 + 2$ 14] $(x+4)^2 + (y-6)^2 = 9$ C(-4,6) $r = 3$

16] $y = 1 + 2 \cos \frac{1}{2} \left(x + \frac{\pi}{2} \right)$ 18] $3\sqrt{3} - 3i$

20] $30^\circ, 150^\circ, 210^\circ, 330^\circ$ 22] -1

24] Mean=3.83, Med=4, Mode=5, Var=4.14, SD=2.03 26] $\frac{14\sqrt{29}}{29}$

28] 1 30] $\left(x + \frac{7}{2} - \frac{\sqrt{11}i}{2} \right) \left(x + \frac{7}{2} + \frac{\sqrt{11}i}{2} \right)$