

## College Algebra Even Answers

- PS 59:** 2] 720      4]  $\frac{(400)(60)(60)}{5280} \frac{\text{mi}}{\text{hr}} \approx 272.727$       6]  $\frac{20(x+1)}{y}$  pencils
- 8] 30 gal of 80%, 20 gal of 20%      10] 2      12] 6      14]  $\frac{2\sqrt{5}}{5}$
- 16]  $y = 3 + 8\sin(\theta - 45^\circ)$       18] 285,316.95 sq.cm.      20] 0.61 sq.m.
- 22]  $\frac{(30)(60)(60)}{(100)(1000)} \frac{\text{km}}{\text{hr}} = 1.08$       24]  $10^\circ, 70^\circ, 130^\circ, 190^\circ, 250^\circ, 310^\circ$       26]  $e^{9.9035}$
- 28]  $(x-3)^2 + (y-2)^2 = 10^2$       30] A

- PS 60:** 2] 6,652,800      4]  $\frac{(5)(1000)(100)}{60(5)} \frac{\text{rad}}{\text{min}} \approx 1666.667$
- 6]  $R = 4, W = 8, G = 10$       8]  $90^\circ, 270^\circ$       10] 5      12] 7      14]  $4\sqrt{2}$
- 16]  $y = -5 + 15\cos(\theta - 45^\circ)$       18] 190.53 sq.m.      20] 279.25 sq.cm.
- 22] A      24] 1      26]  $\frac{x}{5} - \frac{y}{5} = 1$       28] Yes      30]  $2x + 3$
- $\frac{4}{4}$

- PS 61:** 2] 12      4]  $\frac{(16)(40)(2\pi)(60)(60)}{(2.54)(12)(5280)} \frac{\text{mi}}{\text{hr}} \approx 89.953$       6] \$247
- 8] 483      10] 68% between 62 - 68, 95% between 59 - 71, 99% between 56 - 74
- 12] B/W Plot with Outlier Dot = 30 min, Low = 39, Q1 = 54, Med = 60.5, Q3 = 64, Max = 72
- 14]  $30^\circ, 150^\circ, 210^\circ, 330^\circ$       16] 2      18] 23      20]  $y = 2(x-1)^2 - 9$
- 22]  $y = 2 + 5\sin(4\theta)$       24] 8000 sq.cm.
- 26] Graph of circle and parabola - solution shade is inside circle and outside parabola
- 28] 0      30]  $y = -4x + 3$

- PS 62:** 2] 30,240      4] 24      6]  $w = 2\text{mph}, D = 4\text{mph}$       8] 1920
- 10] Range = 6, Mean = 4, Median = 3.5, Mode = 7, Variance = 5.33, SD = 2.31
- 12] Mean = 557.11, SD = 74.38, B/W Plot Min = 465, Q1 = 479, Med = 542, Q3 = 622.5, Max = 689
- 14]  $45^\circ, 135^\circ, 225^\circ, 315^\circ$       16]  $\frac{3}{2}$       18]  $\sqrt{2}$
- 20]  $y = -3 + 5\cos\frac{1}{3}x$       22] 89.88 sq.cm.      24] Graph of line and parabola -
- solution shade is below line and outside parabola      26]  $\frac{4}{3}$
- 28]  $5x + 3y - 2 = 0$       30] Yes