

College Algebra Even Answers

PS 55: 2] 6 4] $\frac{(10)(1000)}{(60)(60)(3)} \frac{\text{rad}}{\text{sec}} \approx .926$ 6] 100 mph 8] $y = (x - 4)^2 - 4$

10] $\frac{(20)(100)(60)(60)}{(2.54)(12)(5280)} \frac{\text{mi}}{\text{hr}} \approx 44.739$ 12] $30^\circ, 210^\circ$ 14] $45^\circ, 225^\circ$ 16] $e^{8.6656}$

18] $\frac{2}{3}$ 20] $y = 7 + 3\sin\theta$ 22] $\left(x - \frac{5}{2} - \frac{\sqrt{7}}{2}i\right)\left(x - \frac{5}{2} + \frac{\sqrt{7}}{2}i\right)$

24] $(x - 2)^2 + (y - 5)^2 = 7^2$ 26a] 6 b] 31 28a] $-\frac{3}{4}$ b] $\frac{\sqrt{7}}{4}$ 30] B

PS 56: 2] 39,916,800 4] $\frac{(40)(2\pi)(10)(2.54)}{60} \frac{\text{cm}}{\text{sec}} \approx 106.395$ 6] \$ 594

8] $Y = 13$ yr, $A = 53$ yr. 10] 18.43 sq. cm. 12] 5 sq m. 14] B

16] $y = -(x + 3)^2 + 3$ 18] $80^\circ, 100^\circ, 200^\circ, 220^\circ, 320^\circ, 340^\circ$ 20] $10^{4.8129}$

22] 3 24] (8, 2) 26] $3(x + 3 - i)(x + 3 + i)$ 28] $(x - 4)^2 + (y - 5)^2 = 5^2$

30] $2x - 2$

PS 57: 2] 83,160 4] $\frac{(40)(1000)(100)}{5(60)(60)} \frac{\text{rad}}{\text{sec}} \approx 222.222$ 6] 4010.77 km

8] $y = 6\sin(\theta - 90^\circ)$ 10] 43.26 sq.cm. 12] 217.51 sq.ft. 14] 20.57 sq.cm.

16] Graph Parabola $V(-2, 8)$ 18] $20^\circ, 100^\circ, 140^\circ, 220^\circ, 260^\circ, 340^\circ$ 20] 10^4

22] $\frac{x}{\frac{7}{4}} + \frac{y}{1} = 1$ 24] 4 26a] 33 b] $\frac{13}{3}$ 28] 5 30] D

PS 58: 2] 30 4] $\frac{(10)(525)(2.54)(60)(60)}{(100)(1000)} \frac{\text{km}}{\text{hr}} = 480.06$ 6] 3640

8] 3.57 atm 10] Graph Parabola $V(-2, 4)$ 12] $y = 2 + 6\cos(2\theta)$

14] 344,720 sq.cm. 16] 0.12 sq.m. 18] $\frac{(250)(1000)(100)(60)(60)}{(2.54)(12)(5280)} \frac{\text{mi}}{\text{hr}} \approx 559234.073$

20] $6^\circ, 66^\circ, 78^\circ, 138^\circ, 150^\circ, 210^\circ, 222^\circ, 282^\circ, 294^\circ, 354^\circ$

22] $3x + y - 7 = 0$ 24] 1 26a] 1 b] 2

28] a] Domain = $\{x \in \mathbb{R} \mid -5 \leq x \leq 2\}$; Range = $\{y \in \mathbb{R} \mid -3 \leq y \leq 6\}$

b] Domain = $\{x \in \mathbb{R} \mid -5 \leq x \leq 5\}$; Range = $\{y \in \mathbb{R} \mid -4 \leq y \leq 4\}$

30] B