

College Algebra Even Answers

PS 72: 2] $\frac{y}{m-2} \frac{yd}{\text{min}}$ 4] 2380 beauties 6] 6° 8] $B = 28^\circ, c = 5.87, b = 7.35$

10] $\frac{x^2}{16} + \frac{y^2}{4} = 1$ Ellipse with vertices at $(0, \pm 2)$ and $(\pm 4, 0)$ 12] -2, 3 14] 12.5 feet

16] $y = -3 + 5 \sin \frac{1}{2} \left(x - \frac{\pi}{2} \right)$ 18a] $10 \text{cis} 143.13^\circ$ b] $\frac{3}{2} - \frac{3\sqrt{3}}{2}i$ 20] $\frac{\pi}{2}, \frac{3\pi}{2}$

22] $\frac{\pi}{6}, \frac{2\pi}{3}, \frac{7\pi}{6}, \frac{5\pi}{3}$ 24] 2 26] Final shade inside large and outside small circle

28] 1 30] Yes

PS 73: 2] $\frac{5000}{M(M-5)}$ dollars 4] 6 times 6] $\frac{x+2}{x+1}$ 8] 482.84

10] $A = 20^\circ, a = 6.70, b = 9.79$ 12] 64.49% 14] $y = \frac{1}{28}(x-3)^2 - 2, D: y = -9,$

AS: $x = 3$ 16] Log Graph through $(1, 0)$ and $\left(\frac{7}{4}, 1\right)$ 18] $y = -2 + 6 \sin \left(x - \frac{\pi}{4} \right)$

20] $y = \frac{ag - cd}{af - bd}$ 22] $0^\circ, 30^\circ, 150^\circ, 180^\circ$ 24] $120^\circ, 240^\circ$ 26] $\frac{3}{4}$

28] $\frac{2}{3}$ 30] $y = -2x + \frac{9}{2}$

PS 74: 2] $\frac{1}{13}$ 4] \$6.44 per hour 6] $\frac{D-P}{N} \frac{\$}{\text{item}}$ 8] $x=1, y=2$

10] 300 sq cm. 12] $\frac{9}{4}$ 14] $\frac{x^2}{16} + \frac{y^2}{25} = 1$ Ellipse with vertices at $(0, \pm 5)$ and $(\pm 4, 0)$

16] -4, 5 18] Log Graph through $(1, 0)$ and $\left(\frac{8}{3}, 1\right)$ 20] $y = 3 + 11 \sin \frac{3}{2} \left(x - 40^\circ \right)$

22] $-24 + 0i$ 24] $\frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6}$ 26] 0 28] $\frac{3}{2}$ 30] $(x - 2\sqrt{5}i)(x + 2\sqrt{5}i)$

PS 75: 2] $\frac{20D}{p^2 - 20p} \frac{\$}{\text{student}}$ 4] 14 mi. 6] 70 8] 293.89 sq.cm. 10] $\frac{25}{4}$

12] $\frac{x^2}{8} + \frac{y^2}{5} = 1$, Ellipse with vertices at $(0, \pm\sqrt{5})$ and $(\pm\sqrt{8}, 0)$ 14] Focus $(0, -4)$, Vertex $(0, 0)$,

$D: y = 4$ 16] $y = 3 + 4 \cos \frac{2}{3} \left(x + 90^\circ \right)$ 18] $-10 + 0i$ 20] $60^\circ, 120^\circ, 240^\circ, 300^\circ$

22] 90° 24] Mean = 2.67, Med = 1.5, Mode = 0, Var = 14.56, SD = 3.82

26] $\frac{2\sqrt{10}}{5}$ 28a] $\frac{2}{3}$ b] 14 c] 0 30] $2 \left(x - \frac{5}{4} - \frac{\sqrt{23}}{4}i \right) \left(x - \frac{5}{4} + \frac{\sqrt{23}}{4}i \right)$