

## College Algebra - Even Answers

### Problem Set 121

2] 53.31 hr    4]  $\frac{30}{7}$  atm    6] GRAPH    8] GRAPH    10] a) 1 b) 0 or 2    12]  $\pm 1, \pm 2, \pm \frac{1}{2}, \pm \frac{1}{4}$

14] Yes    16]  $r = 3$ ; GRAPH    18]  $x^4 + 3x^3 + 7x^2 + 21x + 59 + \frac{178}{x-3}$     20]  $-\frac{2}{3} < x < -\frac{7}{12}$

22]  $1, 6^9$     24] PROOF    26] GRAPH    28]  $45^\circ, 135^\circ, 225^\circ, 315^\circ$     30] No

### Problem Set 122

2] 3    4] 1, 3, 5, 7    6] GRAPH    8] GRAPH    10]  $\begin{bmatrix} \frac{5}{34} & \frac{1}{17} \\ \frac{7}{34} & -\frac{2}{17} \end{bmatrix}; x=2; y=1$

12] a) 1 or 3 b) 0    14] UB = 2; LB = -1    16]  $-1, \frac{1}{5} \pm \frac{\sqrt{39}}{5}i$     18]  $i, \pm 2$     20]  $r = 7$ ; GRAPH

22] C    24]  $8x^3 + 36 + \frac{54}{x^3} + \frac{27}{x^6}$     26]  $\frac{28}{9}$     28] 2    30]  $0, \frac{2\pi}{3}, \frac{4\pi}{3}$

### Problem Set 125

2]  $32\frac{8}{11}$  min    4] 6    6] GRAPH    8] GRAPH

10]  $(-1.5538, -0.5538)(1.5538, 2.5538)$     12]  $(-0.7454, 0.4745)(0.4918, 1.6352)$

14] -0.4142, 1.4142    16] -2.8846, 1.0815    18]  $\left(\frac{13}{8}, \frac{31}{8}\right)$

20]  $y = \frac{1}{4}(x-1)^2 - 2$ ; GRAPH    22] GRAPH    24] GRAPH    26] a) 1 b) 0 or 2

28]  $-\frac{3}{2}, -1, \frac{1}{4}$     30]  $30^\circ, 90^\circ, 150^\circ, 270^\circ$