

Homework Answers - p. 343

9. $-1, \frac{1 \pm i\sqrt{7}}{4}$ 10. $3, \pm i$
 11. $4, \frac{1 \pm i\sqrt{3}}{2}$ 12. $2, \pm\sqrt{3}$
 13. $\pm 2, \pm\sqrt{2}$ 14. $\pm 2, \pm i$
 15. $0, \frac{3 \pm 3\sqrt{3}}{2}$ 16. $-6, \pm i$

32) C 33) H 34) B 35) H 36) B

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11) $g(x) = x^3 - 5x^2 + 5x - 4$

$$\begin{array}{r} 4 \overline{) 1 \ -5 \ 5 \ -4} \\ \underline{4 \ -4 \ 4} \\ 1 \ 4 \ 1 \ 0 \end{array}$$

$$x = \frac{1 \pm \sqrt{(-1)^2 - 4(1)(-4)}}{2(1)}$$

$$x = \frac{1 \pm \sqrt{17}}{2}$$

$$x^2 - 4x + 4$$

$$(x-2)^2$$

$$x = 2$$

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15) $y = x^3 - 3x^2 - 9x$

$x(x^2 - 3x - 9) = 0$

$x = 0$ $x = \frac{3 \pm \sqrt{9 - 4(1)(-9)}}{2(1)}$

$x = \frac{3 \pm \sqrt{45}}{2}$

$x = \frac{3 \pm 3\sqrt{5}}{2}$

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Homework: Chapter 6 Review Packet

Copy can be found on the website

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