

COLLEGE ALGEBRA EVEN ANSWERS

PS 26: 2. $\frac{80}{7}$ min 4. Donnie=65mph ; Time=5 hr 6a] $\log_k 7 = p$ b] $k^p = 7$

8. 3 10. 16 12. graph 14. (a) $\{x \in \mathbb{R} \mid x \geq -\frac{1}{2}\}$ (b) $\{x \in \mathbb{R} \mid x \geq 0\}$ (c) $\{x \in \mathbb{R} \mid x \neq -\frac{1}{2}, 3\}$

Statements Reasons

16. 0 18. $\frac{\sqrt{2}}{2} - 1$ 20. $\frac{AC}{BC} = \frac{BC}{DC}$ 22.-2

1. $AC * DC = BC * BC$ 1. Given
2. Division
3. $\angle C = \angle C$ 3. Reflexive axiom
4. $\triangle ABC \cong \triangle BDC$ 4. SAS similarity postulate

24. $(4x^4y^2 - 3a^2b^3)(16x^8y^4 + 12x^4y^2a^2b^3 + 9a^4b^6)$ 26. $\frac{x-4}{x-7}$ 28. 10m 30. A

PS 27: 2. $\frac{40}{3}$ min 4. NB=7, NR=4, NW= 8 6. $y = \frac{2}{3}x - \frac{7}{3}$ 8. $m^n = 8$
10.-3 12. Graphs 14. (a.) Not a function (b.) Not a function (c.) Function, 1 to 1

(d) Function not 1 to 1 16. $\frac{3}{2}$ 18. -1 20. (0,4) $(\frac{-12}{5}, \frac{-16}{5})$

22. $\frac{8}{5} + \frac{16}{5}i$ 24. $\frac{1}{4} \pm \frac{\sqrt{7}}{4}i$ 26. Proof 28.6cm 30. A

PS 28: 2. $\frac{RT+20}{R+5}$ hr 4. $\frac{80}{13}$ hr 6. 840 8. $\log_2 9 = k$ 10. 3

12. 16 1 14. Graph 16. $\sqrt{3}$ 18. a] -6 b] -3 c] -3 20. $\frac{x^2y - y^3zca}{s^2tca - r^2z}$

22. $\frac{2-\sqrt{2}}{2}$ 24. $x^3 - 2x^2 - 2x - \frac{6}{x-1}$ 26. Proof 28. l = 20 m, h = 12m 30. B

PS 29: 2] $\frac{1}{2}$ henway day 4] Nat = 65, Odessa= 75 6] 10,080 8] $\log_3 12 = k$

10] 7 12] 64 14] Graph 16a] $\{x \in \mathbb{R} \mid x \geq \frac{5}{4}\}$ b] $\{x \in \mathbb{R} \mid x > -3\}$

c] $\{x \in \mathbb{R} \mid x \geq -2, x \neq -\frac{1}{2}, 1\}$ 18] 0 20] $\frac{\sqrt{3}}{2} + 1 = \frac{\sqrt{3} + 2}{2}$

22a] $4a^{3m}(a+2)(a-2)$ b] $(2ab - 3c^2d^2)(4a^2b^2 + 6abc^2d^2 + 9c^4d^4)$ 24] $\frac{-30+i}{6}$

26] $\sqrt{x+h} + x^2 + 2xh + h^2$ 28] x=60, y = 80 30] B