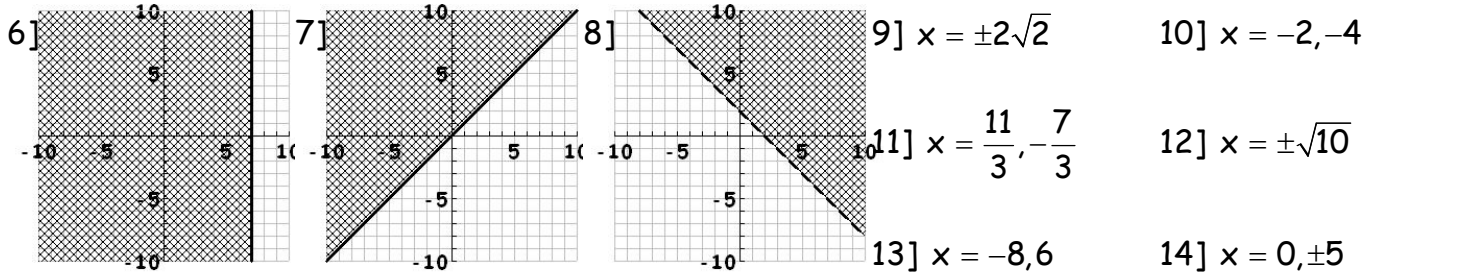
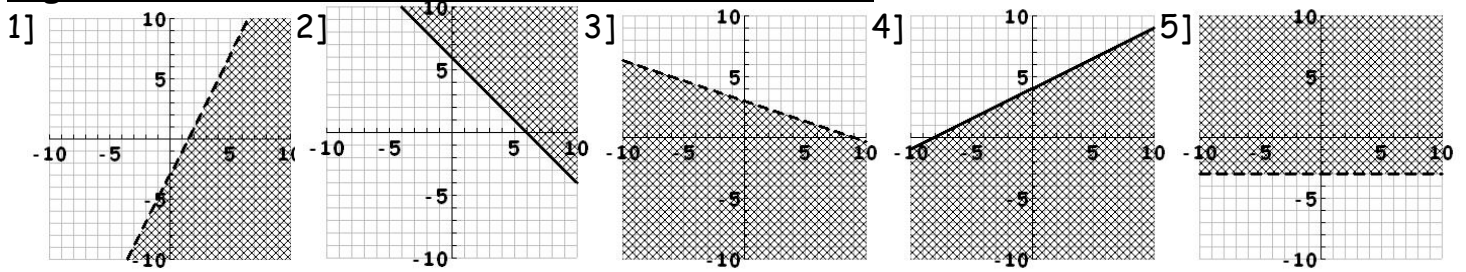
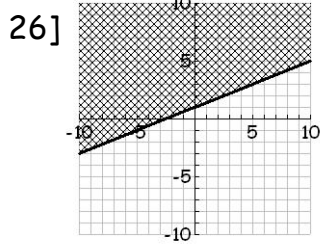
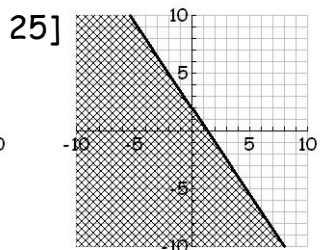
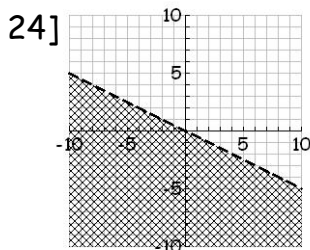


Algebra 1**Problem Set 91****ANSWERS**

- 15] $x = 12, -7$ 16] $x = -8, 3$ 17] a) $\frac{162}{15625}$ b) $\frac{99}{9800}$ 18] $\frac{125}{46656}$
 19] $\frac{1}{2}$ 20] 65 bird eggs 21] 200 serves 22] $y = -8x + 6$ 23] $n = 8, d = 7$
 24] $p = 22, q = 12$ 25] $x = -\frac{5}{4}$ 26] $\frac{x+3}{x+1}$ 27] $2, -\frac{1}{2}$ 28] $288\pi \approx 904.779 \text{ in}^3$
 29] 805,376 yd² 30] 283.465 in

Algebra 1**Problem Set 92****Answers**

- 1] $(3x-1)(x+2)$ 2] $(2x-5)(x+3)$ 3] $(2x+3)(x+1)$ 4] $(3x+2)(x+2)$
 5] $(7x-1)(x-1)$ 6] $(3x+1)(x-5)$ 7] $(4x+7)(4x-7)$ 8] $2x(x-9)(x+3)$
 9] $5x(x+3)(x-3)$ 10] $x = \frac{5}{2}, 5$ 11] $x = -\frac{8}{3}, 1$ 12] $x = -\frac{6}{7}, -2$ 13] $x = 0, \frac{7}{2}, 3$
 14] $x = 0, \pm 2$ 15] $x = -3, 5$ 16] $x = 2 \pm \sqrt{5}$ 17] $x = \pm 2\sqrt{3}$ 18] $x = -3, -9$
 19] $x = 4$ 20] $x = -5$ 21] $x = 10$ 22] $\frac{1}{432}$ 23] a) $\frac{27}{2197}$ b) $\frac{11}{1105}$



27] 60 m^3

28] $600\pi \approx 1884.956 \text{ m}^2$

29] $36\pi \approx 113.097 \text{ m}^3$

30] $\frac{1}{3}, -2$

Algebra I Answers Problem Set 93

1. $x = -6, 4$

2. $x = -7, 3$

3. $x = -2, 8$

4. $x = -1 \pm \sqrt{21}$

5. $x = -2 \pm \sqrt{19}$

6. $x = 4 \pm \sqrt{10}$

7. $x = -5 \pm \sqrt{22}$

8. $x = 6 \pm 2\sqrt{5}$

9. $x = 10 \pm \sqrt{110}$

10. $x = -5, \frac{3}{2}$

11. $x = \frac{4}{3}, 6$

12. $x = -3, -\frac{4}{5}, 0$

13. $x = -5, 0, 5$

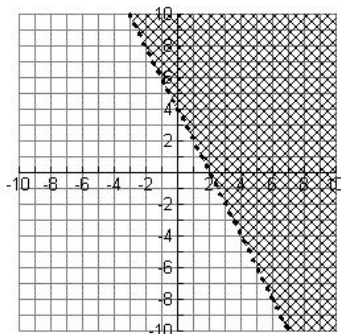
14. $x = -9, 7$

15. $x = -2, 10$

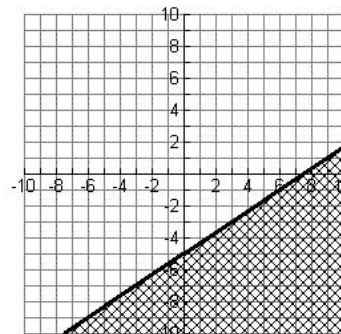
16. $x = 9$

17. $x = 1\frac{5}{8}$

19.



20.



18. $x = -\frac{2}{77}$

21a) $\frac{1}{28,561}$

22. $SA = 9\pi \text{ cm}^2 \approx 28.274 \text{ cm}^2$

23. $LSA = 100\sqrt{2}\pi \text{ ft}^2 \approx 444.288 \text{ ft}^2$

b) $\frac{6}{270,725}$

$V = 4.5\pi \text{ cm}^3 \approx 14.137 \text{ cm}^3$

$V = \frac{1000}{3}\pi \text{ ft}^3 \approx 1047.198 \text{ ft}^3$

24a) C

b) D

c) F

d) A

e) B

25. 1

26. $-2, 14$

27. $\frac{x^2}{y^2}$

$$28. \frac{3x^2 - 16x + 30}{6(x+2)}$$

$$29. x = -\frac{3}{2}, \frac{2}{3}$$

$$30. (-5, 3)$$

Algebra I Answers Problem Set 94

$$1. x = -2, 6$$

$$2. x = 4, 5$$

$$3. x = -1, \frac{5}{2}$$

$$4. x = -\frac{1}{3}, 3$$

$$5. x = 1, \frac{3}{2}$$

$$6. x = \frac{2}{3} \pm \frac{\sqrt{10}}{3}$$

$$7. x = -5, -3$$

$$8. x = 2 \pm \sqrt{10}$$

$$9. x = -5 \pm 3\sqrt{3}$$

$$10. x = -3, 0$$

$$11. x = -3, 3$$

$$12. x = -6, 0, 1$$

$$13. x = -\frac{1}{5}, 3$$

$$14. x = -\frac{1}{2}, \frac{3}{2}$$

$$15. \frac{2x+3}{x+2}$$

$$16. \frac{3x-1}{2(x-6)(x+2)}$$

$$17. \frac{1}{658,008}$$

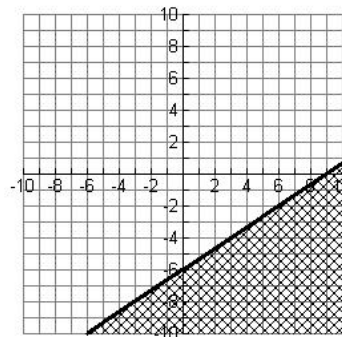
$$18. \frac{1}{1296}$$

$$19. 6912 \text{ in}^2$$

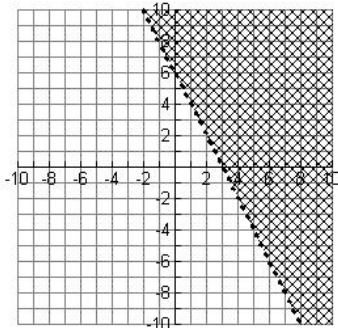
$$20. 952 \text{ in}^2$$

$$21. 56.25\pi \text{ ft}^3 \approx 176.715 \text{ ft}^3$$

22.



23.



$$24. 3x^2y$$

$$25. -\frac{1}{2}y^6$$

$$26. 1.6$$

$$27. y = -\frac{3}{2}x + \frac{1}{2}$$

$$28. x = \frac{2}{3}$$

$$29. x = -\frac{28}{13}$$

$$30. -a^2b^{-3} - 2a^{-7}b^{-1}$$

Answers Algebra I Problem Set 95

1. Nickels = 3, Dimes = 12

2. Nickels = 3, Dimes = 12

3. Quarters = 15, Dimes = 23

4. 5 cent = 40, 10 cent = 60

5. Advanced = 22, At Gate = 16

6. Petunias = 12, Marigolds = 18

7. width = 9 ft., length = 27 ft.

8. width = 36 ft., length = 78 ft

9. $x = -\frac{4}{3}, -2$

10. $x = \frac{1}{2}, -5$

11. $x = \frac{3 \pm \sqrt{17}}{10}$

12. $x = -4, 2$

13. $x = 3 \pm 3\sqrt{2}$

14. $x = 1, 3$

15. $x = 12, -2$

16. $x = \pm 2\sqrt{3}$

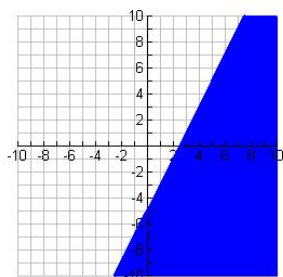
17. $x = \pm 6$

18. $x = -\frac{4}{3}, 7$

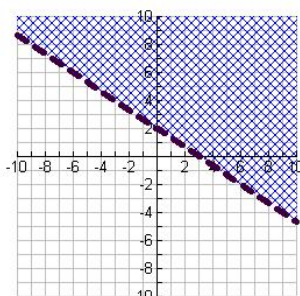
19. $x = 0, -6, 6$

20. $x = 0, -5, 8$

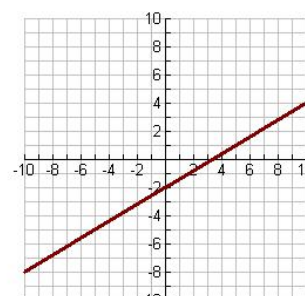
21.



22.



23.



24. $\frac{x+1}{x-1}$

25. -15

26. $\frac{1}{9m^4x^8y^2}$

27. Comp = 9° , Supp = 99°

28. $x = \frac{3}{2}$

29. $\frac{3ak^2mx + 10kx + 2m}{k^2m^2}$

30. $p = -10$