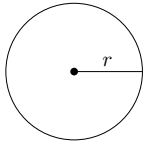
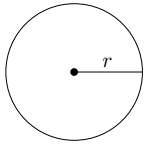
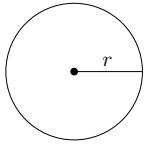
1. c
2. g
3. c
4. d
5.
6.
7.
8. Dimensions: 61 ft by 122 ft
9. Question: $(3x^2+18x-10)\div(x+7)$
   Solution: $3x-3+\dfrac{11}{x+7}$
10. Received 14.60 inches of rain, 18% less rain than normal. Normal is 17.80 inches.
11. Formula $s=\sqrt{21\cdot d}$. Deer is 80 feet away.
    (a) If speed is 50 miles per hour, she will skid 119.048 feet.
    (b) She will hit the deer.
12. $\begin{cases}2x+y=7\\-5x+5y=5\end{cases}$; solution $(2,3)$
13. (a) 3
    (b) Domain: $[-8,0]$
    (c) Range: $[-1,7]$
14. 9π



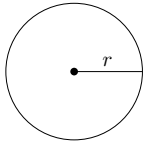
1. c
2. a
3. f
4. d
5. Solution content.
6.
7.
8. Largest area: 11552 ft^2
9. Question: $(4x^2+11x-7) \div (x+4)$
   Solution: $4x-5+\dfrac{13}{x+4}$
10. Paid \$1580.37 for a desk that was 13% off. Original cost was \$1816.52.
11. Formula $s=\sqrt{27 \cdot d}$. Deer is 65 feet away.
    (a) If speed is 35 miles per hour, she will skid 45.37 feet.
    (b) She will not hit the deer.
12. $\begin{cases} -2x+y=6 \\ -4x+3y=12 \end{cases}$; solution $(-3,0)$
13. (a) -3
    (b) Domain: $[-8,0]$
    (c) Range: $[-9,-1]$
14. 25π



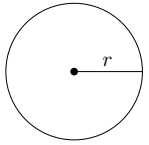
1. h
2. e
3. a
4. a
5.
6.
7.
8. Dimensions: 72 ft by 144 ft
9. Question: $(4x^2+22x-30)\div(x+7)$
   Solution: $4x-6+\dfrac{12}{x+7}$
10. Received 10.95 inches of rain, 12% less rain than normal. Normal is 12.44 inches.
11. Formula $s=\sqrt{24\cdot d}$. Deer is 80 feet away.
    (a) If speed is 55 miles per hour, she will skid 126.042 feet.
    (b) She will hit the deer.
12. $\begin{cases}2x+4y=-18\\x-3y=1\end{cases}$; solution $(-5,-2)$
13. (a) 1
    (b) Domain: $[0,8]$
    (c) Range: $[1,9]$
14. 9π



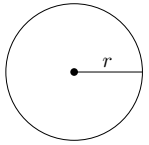
1. c
2. a
3. b
4. b
5.
6.
7.
8. Dimensions: 62 ft by 124 ft
9. Question: $(3x^2+7x-32) \div (x+5)$
   Solution: $3x-8+\dfrac{8}{x+5}$
10. Received 11.11 inches of rain, 14% less rain than normal. Normal is 12.92 inches.
11. Formula $s=\sqrt{30 \cdot d}$. Deer is 75 feet away.
    (a) If speed is 50 miles per hour, she will skid 83.333 feet.
    (b) She will hit the deer.
12. $\begin{cases} x-5y=-14 \\ -5x-5y=10 \end{cases}$; solution $(-4,2)$
13. (a) -7
    (b) Domain: $[-4,4]$
    (c) Range: $[-9,-1]$
14. 25π



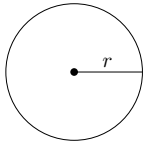
1. g
2. b
3. a
4. a
5.
6.
7.
8. Largest area: 8712 ft^2
9. Question: $(4x^2+18x-26) \div (x+6)$
   Solution: $4x-6+\dfrac{10}{x+6}$
10. Received 13.34 inches of rain, 14% less rain than normal. Normal is 15.51 inches.
11. Formula $s=\sqrt{21 \cdot d}$. Deer is 65 feet away.
    (a) If speed is 25 miles per hour, she will skid 29.762 feet.
    (b) She will not hit the deer.
12. $\begin{cases} -2x-5y=-35 \\ 5x+y=30 \end{cases}$; solution $(5,5)$
13. (a) 3
    (b) Domain: $[-4,4]$
    (c) Range: $[1,9]$
14. 25π



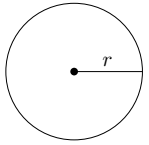
1. h
2. b
3. h
4. b
5.
6.
7.
8. Largest area: 5408 ft^2
9. Question: $(3x^2+11x-34) \div (x+6)$
   Solution: $3x-7+\dfrac{8}{x+6}$
10. Desk marked up 14% to \$1488.25. Was originally \$1305.48.
11. Formula $s=\sqrt{30 \cdot d}$. Deer is 80 feet away.
    (a) If speed is 40 miles per hour, she will skid 53.333 feet.
    (b) She will not hit the deer.
12. $\begin{cases} 3x+y=-4 \\ -4x+5y=-1 \end{cases}$; solution $(-1,-1)$
13. (a) -3
    (b) Domain: $[-8,0]$
    (c) Range: $[-9,-1]$
14. 4π



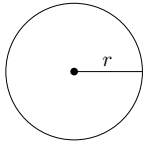
1. c
2. a
3. f
4. d
5.
6.
7.
8. Dimensions: 61 ft by 122 ft
9. Question: $(2x^2+8x-28) \div (x+7)$
   Solution: $2x-6+\dfrac{14}{x+7}$
10. Paid \$1475.98 for a desk that was 15% off. Original cost was \$1736.45.
11. Formula $s=\sqrt{30 \cdot d}$. Deer is 75 feet away.
    (a) If speed is 40 miles per hour, she will skid 53.333 feet.
    (b) She will not hit the deer.
12. $\begin{cases} -3x+4y=-7 \\ x-3y=9 \end{cases}$; solution $(-3,-4)$
13. (a) 7
    (b) Domain: $[-2,6]$
    (c) Range: $[1,9]$
14. 16π



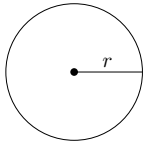
1. d
2. a
3. a
4. d
5.
6.
7.
8. Largest area: 11858 ft^2
9. Question: $(4x^2+16x-36) \div (x+6)$
   Solution: $4x-8+\dfrac{12}{x+6}$
10. Received 12.61 inches of rain, 13% less rain than normal. Normal is 14.49 inches.
11. Formula $s=\sqrt{30 \cdot d}$. Deer is 60 feet away.
    (a) If speed is 50 miles per hour, she will skid 83.333 feet.
    (b) She will hit the deer.
12. $\begin{cases} x+5y=-18 \\ 5x-5y=0 \end{cases}$; solution $(-3,-3)$
13. (a) -3
    (b) Domain: $[-8,0]$
    (c) Range: $[-5,3]$
14. 25π



1. c
2. f
3. j
4. b
5.
6.
7.
8. Largest area: 6498 ft^2
9. Question: $(4x^2+16x-39) \div (x+6)$
   Solution: $4x-8+\dfrac{9}{x+6}$
10. Received 11.73 inches of rain, 13% less rain than normal. Normal is 13.48 inches.
11. Formula $s=\sqrt{27 \cdot d}$. Deer is 60 feet away.
    (a) If speed is 35 miles per hour, she will skid 45.37 feet.
    (b) She will not hit the deer.
12. $\begin{cases} x-4y=0 \\ -4x-5y=-21 \end{cases}$; solution $(4,1)$
13. (a) -3
    (b) Domain: $[-8,0]$
    (c) Range: $[-7,1]$
14. 16π



1. h
2. h
3. a
4. b
5.
6.
7.
8. Dimensions: 52 ft by 104 ft
9. Question: $(4x^2+20x-46)\div(x+7)$
   Solution: $4x-8+\dfrac{10}{x+7}$
10. Desk marked up 15% to \$1968.68. Was originally \$1711.90.
11. Formula $s=\sqrt{24\cdot d}$. Deer is 55 feet away.
    (a) If speed is 25 miles per hour, she will skid 26.042 feet.
    (b) She will not hit the deer.
12. $\begin{cases}3x+y=-8\\-4x+5y=-21\end{cases}$; solution $(-1,-5)$
13. (a) -3
    (b) Domain: $[-8,0]$
    (c) Range: $[-9,-1]$
14. 4π



1. b
2. a
3. c
4. d
5. (a) First solution.
   (b) Second solution.
6. (a) First solution.
   (b) Second solution.
7.
8. Dimensions: 64 ft by 128 ft
9. Question: $(3x^2+7x-29) \div (x+5)$
   Solution: $3x-8+\dfrac{11}{x+5}$
10. Desk marked up 17% to \$1614.25. Was originally \$1379.70.
11. Formula $s=\sqrt{27 \cdot d}$. Deer is 80 feet away.
    (a) If speed is 40 miles per hour, she will skid 59.259 feet.
    (b) She will not hit the deer.
12. $\begin{cases} 3x-5y=-30 \\ 5x+y=-22 \end{cases}$; solution $(-5,3)$
13. (a) -3
    (b) Domain: $[-2,6]$
    (c) Range: $[-5,3]$
14. 25π