

# Solution Manual for Technical Calculus With Analytic Geometry , 4th Edition

## Chapter 1

### FUNCTIONS AND GRAPHS

#### 1.1 Introduction to Functions

1. (a)  $A(r) = \pi r^2$

(b)  $A(d) = \pi \left(\frac{d}{2}\right)^2 = \pi \frac{d^2}{4}$

2. From geometry,  $c = 2\pi r$  (b)  $c = \pi d$

3. From geometry,

$$V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi \left(\frac{d}{2}\right)^3$$

$$= \frac{4}{3}\pi \frac{d^3}{8} = \frac{1}{3}\pi \frac{d^3}{2} = \frac{1}{6}\pi d^3$$

4. From geometry,  $A = 6\pi r^2$ ;  $r^2 = \frac{A}{6\pi}$ ;  $r = \sqrt{\frac{A}{6\pi}}$

5.  $A(t) = 6t = 54$

6. From geometry,  $V = \frac{1}{3}\pi r^2 h = \frac{1}{3}\pi r^2 (8) = \frac{8}{3}\pi r^2$

7. From geometry,  $A = r^2$   
 $\sqrt{A} = \sqrt{r^2}$   
 $r = \sqrt{A}$

8. From geometry,  $p = 4s$

$$\frac{4s}{4} = \frac{p}{4}$$

$$s = \frac{p}{4}$$

9.  $f(x) = 2x + 1$ ;  $f(1) = 2 \cdot 1 + 1 = 3$ ;

$f(-1) = 2(-1) + 1 = -1$

10.  $f(x) = 5x - 9$

$f(2) = 5(2) - 9 = 10 - 9 = 1$

$f(-2) = 5(-2) - 9 = -10 - 9 = -19$

11.  $f(x) = 5 - 3x$

12.  $\phi(x) = \frac{6-x^2}{2x}$ ;  $\phi(1) = \frac{6-1^2}{2(1)} = \frac{5}{2}$ ;

$\phi(-2) = \frac{6-(-2)^2}{2(-2)} = \frac{2}{-4} = -\frac{1}{2}$

14.  $H(x) = \frac{x}{4} + 2\sqrt{x}$

$H(4) = \frac{4}{4} + 2\sqrt{4} = 1 + 2(2) = 1 + 4 = 5$

$H(0.16) = \frac{0.16}{0.16} + 2\sqrt{0.16} = 1.0 + 2(0.4)$   
 $= 1.0 + 0.8 = 1.8$

15.  $g(x) = ax^2 - a^2x$

$$g\left(-\frac{1}{2}\right) = a\left(-\frac{1}{2}\right)^2 - a^2\left(-\frac{1}{2}\right)$$

$$= a\left(\frac{1}{4}\right) + a^2\left(\frac{1}{2}\right)$$

$$= \frac{1}{4}a + \frac{1}{2}a^2$$

$g(x) = a(x^2) - a^2(x) = a^2 - a^2 = 0$

16.  $w(x) = 6\sqrt{x+1} - 3$

$w(8) = 6\sqrt{8+1} - 3 = 6\sqrt{9} - 3$   
 $= 6(3) - 3 = 18 - 3 = 15$

$w(x^2) = 6\sqrt{x^2+1} - 3$

17.  $K(x) = 3x^2 - x + 6$ ;

$K(-x) = 3(-x)^2 - (-x) + 6 = 3x^2 + x + 6$

$K(2x) = 3(2x)^2 - 2x + 6 = 12x^2 - 2x + 6$

18.  $T(x) = 5x + 7$

$T(-2x) = 5(-2x) + 7 = -10x + 7$

$T(x+1) = 5(x+1) + 7 = 5x + 5 + 7 = 5x + 12$

19.  $f(x) = 2x + 4$

$f(3x) - 3f(x) = 2(3x) + 4 - 3(2x + 4)$

$= 6x + 4 - 6x - 12$

$= -8$

# Solution Manual In Analytic Geometry

**George B. Thomas**



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