



26.

27. If  $f^{-1}(x) = 1$ , then  $x = f(1) = 2(1)^3 + 5(1) + 3 = 10$ .28. If  $f^{-1}(x) = 2$ , then  $x = f(2) = (2)^3 / [(2)^2 + 1] = 8/5$ .29.  $f(f(x)) = x$  thus  $f = f^{-1}$  so the graph is symmetric about  $y = x$ .30. (a) Suppose  $x_1 \neq x_2$  where  $x_1$  and  $x_2$  are in the domain of  $g$  and  $g(x_1)$ ,  $g(x_2)$  are in the domain of  $f$  then  $g(x_1) \neq g(x_2)$  because  $g$  is one-to-one so  $f(g(x_1)) \neq f(g(x_2))$  because  $f$  is one-to-one thus  $f \circ g$  is one-to-one because  $(f \circ g)(x_1) \neq (f \circ g)(x_2)$  if  $x_1 \neq x_2$ .(b)  $f$ ,  $g$ , and  $f \circ g$  all have inverses because they are all one-to-one. Let  $h = (f \circ g)^{-1}$  then  $(f \circ g)(h(x)) = f[g(h(x))]$  apply  $f^{-1}$  to both sides to get  $g(h(x)) = f^{-1}(x)$ , then apply  $g^{-1}$  to get  $h(x) = g^{-1}(f^{-1}(x)) = (g^{-1} \circ f^{-1})(x)$ , so  $h = g^{-1} \circ f^{-1}$ .31. False.  $f^{-1}(2) = f^{-1}(f(2)) = 2$ .32. False. For example, the inverse of  $f(x) = 1 + 1/x$  is  $g(x) = 1/(x - 1)$ . The domain of  $f$  consists of all  $x$  except  $x = 0$ ; the domain of  $g$  consists of all  $x$  except  $x = 1$ .

33. True. Both terms have the same definition; see the paragraph before Theorem 0.4.3.

34. False.  $\pi/2$  and  $-\pi/2$  are not in the range of  $\tan^{-1}$ .35.  $\tan \theta = 4/3$ ,  $0 < \theta < \pi/2$ ; use the triangle shown to get  $\sin \theta = 4/5$ ,  $\cos \theta = 3/5$ ,  $\cot \theta = 3/4$ ,  $\sec \theta = 5/3$ ,  $\csc \theta = 5/4$ .36.  $\sec \theta = 2.6$ ,  $0 < \theta < \pi/2$ ; use the triangle shown to get  $\sin \theta = 2.4/2.6 = 12/13$ ,  $\cos \theta = 1/2.6 = 5/13$ ,  $\tan \theta = 2.4 = 12/5$ ,  $\cot \theta = 5/12$ ,  $\csc \theta = 13/12$ .37. (a)  $0 \leq x \leq \pi$       (b)  $-1 \leq x \leq 1$       (c)  $-\pi/2 < x < \pi/2$       (d)  $-\infty < x < +\infty$ 38. Let  $\theta = \sin^{-1}(-3/4)$ ; then  $\sin \theta = -3/4$ ,  $-\pi/2 < \theta < 0$  and (see figure)  $\sec \theta = 4/\sqrt{7}$ .

# Solutions Manual For Introduction To Calculus

**James Robert Evans**



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